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SOFTWARE COST ESTIMATION STUDY(U) MARTIN MARIETTA
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TECHNICAL REPORT
SOFTWARE COST ESTIMATION STUDY
APRIL, 1987
CER MODEL PLANNING REPORT
by
Dr. Aaron N. Silver
Mr. William G. Cheadle

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TECHNICAL REPORT
SOFTWARE COST ESTIMATION STUDY

APRIL, 1987

Prepared for

OFFICE OF NAVAL RESEARCH (ONR)
NAVAL CENTER FOR COST ANALYSIS
DEPARTMENT OF THE NAVY
WASHINGTON, D.C. 20350-1100



Under Contract N00014-85-C-0892
Delivery Order No. MCR-87-511
CDRL Item No. A006
CER MODEL PLANNING REPORT

by

Dr. Aaron N. Silver
Mr. William G. Cheadle

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I. INTRODUCTION

This "CER MODEL PLANNING REPORT," CDRL Item No. A006, contains the results of the "Cost Estimation Study," contract N00014-85-C-0892, conducted for the Naval Center for Cost Analysis (under the auspices of the Office of Naval Research) during the period of performance 12 January 1987 through 04 April 1987. The effort described in this report focuses upon the following three areas addressed in Task III: (The statement and objectives of TASK III are given in Figure 1.-1, while the schedule is shown in Figure 1.-2).)

- (1) The collection of current AVIONICS data and subsequent derivation of preliminary CER (Cost Estimating Relationship) prototypes for ultimately calibrating the SASET model parameters. This includes the generation of SASET productivity factors and complexity multipliers; and
- (2) The categorization and organization of functional sizing data for formulating a suitable AVIONICS data base. This AVIONICS data base will be utilized in the SASET model in generating cost and schedule outputs; and
- (3) The calibration of the SASET model AVIONICS data base to ensure verification and validation of all SASET model parameters. In this respect, a total review of all SASET model requirements has begun. The intent is to update the "SASET REQUIREMENTS" document within the next quarterly reporting period.

In addition, substantive effort is currently being devoted to the computerization of the SASET model on an IBM PC. In this respect, most of the input screens have already been constructed, the data base for Ground Support software has been implemented, and some of the output Tables and Graphics are also operational. Preliminary tests are also being conducted to integrate all these computer modules. Most of the computer computations are in the check out phase, and considerable effort is being made to produce a "user friendly", and easily understood computer package.

STUDY TASKS AND OBJECTIVES

TASK III: DEVELOP COST ESTIMATING RELATIONSHIPS (CERS) BETWEEN FUNCTIONS/PRODUCTS, SOFTWARE COSTS, AND ACQUISITION PHASES.

OBJECTIVES:

TO FORMULATE A FULLY INTEGRATED METHODOLOGY AND DEVELOP APPROPRIATE ANALYSIS TECHNIQUES FOR THE GENERATION OF COST ESTIMATING RELATIONSHIPS (CERS).

TO PROVIDE CRITERIA, PERFORMANCE MEASURES, AND PROCEDURES FOR ALL SOFTWARE COST ESTIMATING MODELS.

TO FURNISH PRELIMINARY CER PROTOTYPES FOR CONDUCTING FUNCTIONAL SIZING, COSTING, AND SCHEDULING.

DEVELOP METHODS AND PROCEDURES THAT WILL RELATE FUNCTION/PRODUCT ACQUISITION SOFTWARE COST ESTIMATES TO TOTAL LIFE CYCLE COST.

OBJECTIVES:

TO PROVIDE VISIBILITY WITH RESPECT TO SOFTWARE COST ELEMENTS ON A FUNCTION/PRODUCT BASIS.

TO EXPEDITIOUSLY INTEGRATE SOFTWARE COST ESTIMATES INTO THE TOTAL LIFE CYCLE DEVELOPMENT PROCESS.

FIGURE 1.-1 TASK III & IV OBJECTIVES

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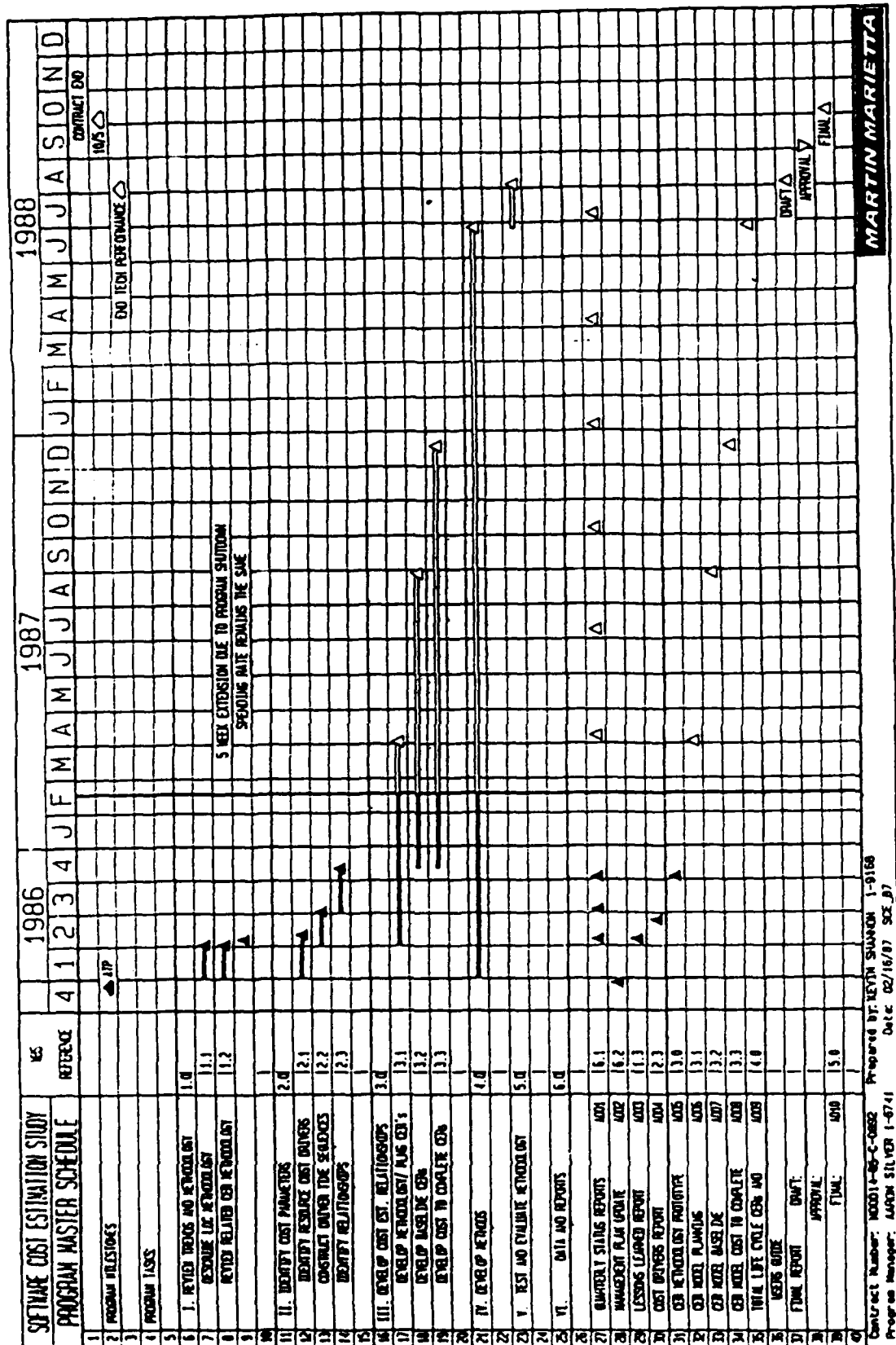


FIGURE 1.-2 SOFTWARE COST ESTIMATION STUDY SCHEDULE

II. Preliminary CER Prototype for AVIONICS Data

2.0 Introduction

Figure 2.-1 illustrates, in summary block diagram form the basic elements of the CER development process. The emphasis is to obtain data which can be easily grouped into homogeneous sub-sets at the lowest possible level in the software Work Breakdown Structure (WBS) hierarchy. This process inherently yields accurate CER's. Thus, the respective classes of software, i.e., manned, unmanned, avionics, and ground, across all software types such as Systems, Applications, and Support, produce a logical initial breakdown of the given data base. These data are further decomposed onto the development life cycle phases, i.e., requirements, design, code, checkout, etc. The result is a data base which accurately reflects cost accrual by class of cost, time phases, organization, and type of cost.

The flow for determining the actual CER is illustrated in Figure 2.-2. Steps 1 and 2 form the basis of the analysis. The utilization of logical sub-sets and grouping of the data into separate classes results in removing outliers and enhances the statistical reliability of the observations.

Steps 3, 4, and 5 are pre-regression type analyses to condition and further screen the data for significant groupings, so that homogeneity is yet enhanced. Step 3 includes statistical correlation, while steps 4 and 5 identify the minimal set of variables which are both necessary and sufficient to yield suitable cost factors, in terms of "complexity" measures that are correlated with cost. Included in these steps are data normalization and data conditioning procedures and protocols.

Step 6 determines the functional form of the regression analysis, in terms of the best statistical fit to the observed data. Here, the residuals are examined, and an "F" statistic computed. Also, additional analyses may be performed to examine the respective components of the analysis of variance, so that linear, quadratic, and other statistically significant higher order effects may be taken into account.

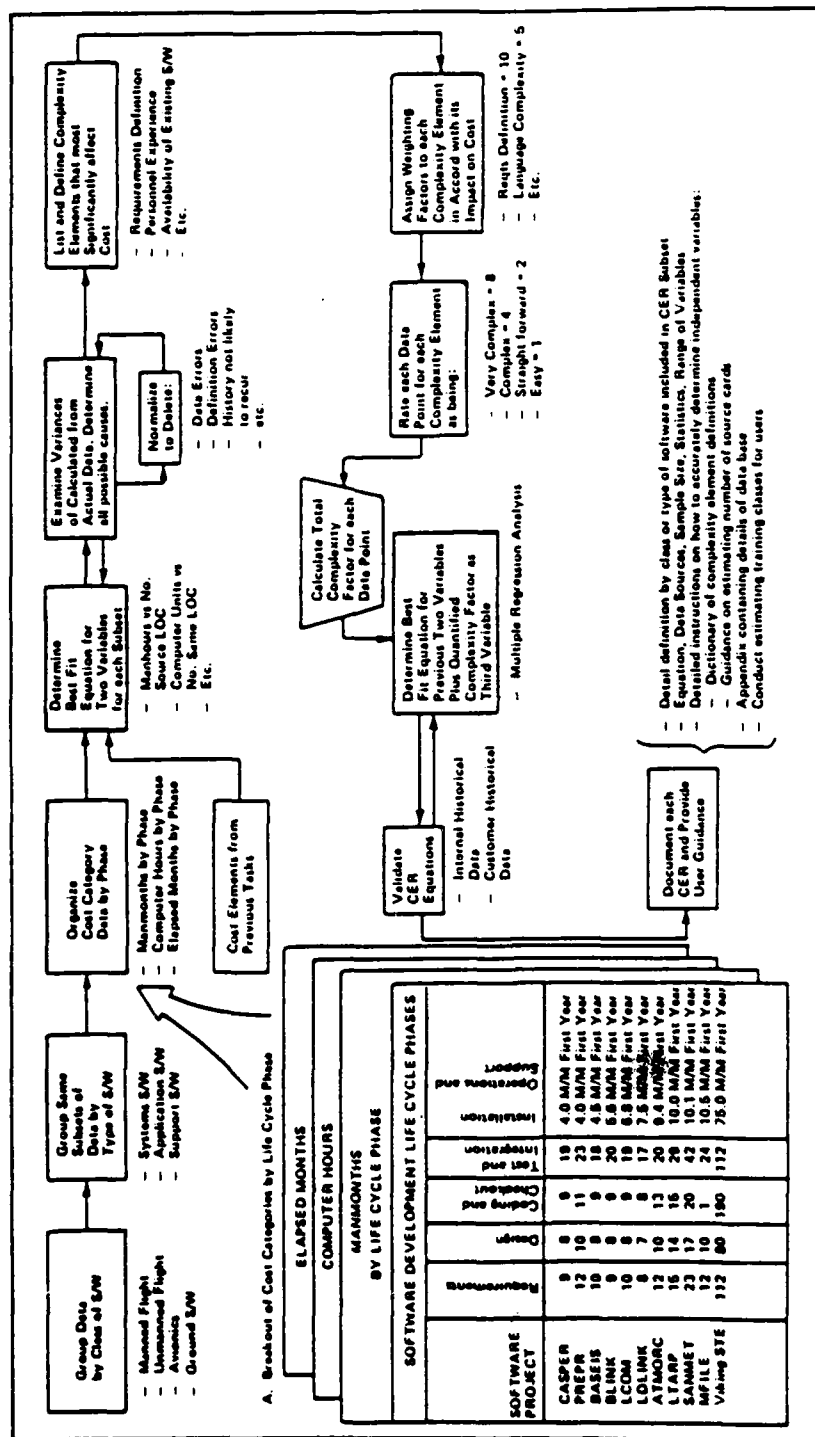


Figure 2.-1 CER DEVELOPMENT METHODOLOGY

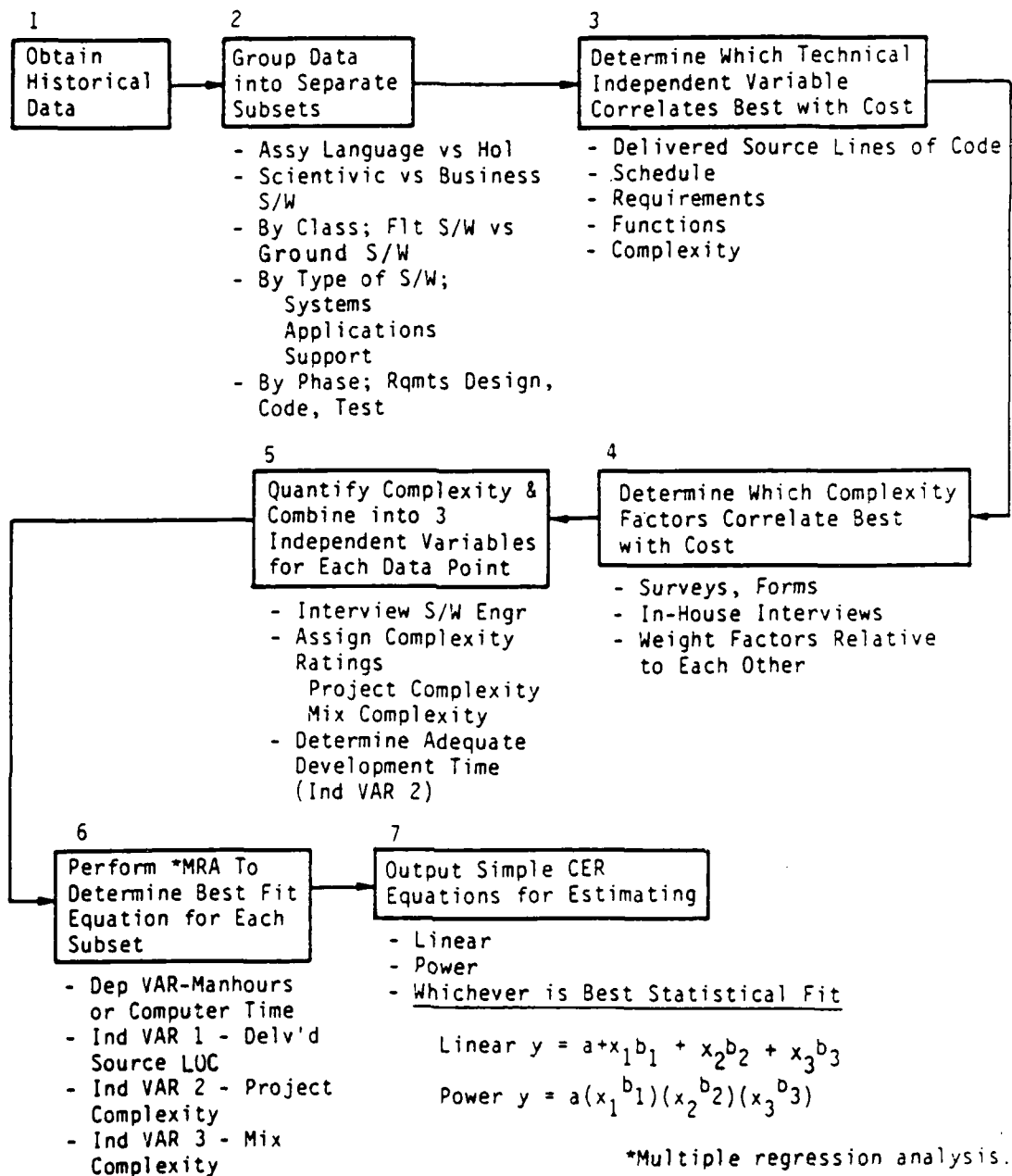


Figure 2.-2 FLOW FOR DEVELOPING CER'S

Table 2.-1 summarizes some of the basic raw data collected in deriving preliminary CER's for AVIONICS. Basically, the data are organized by type of software, i.e., Systems, Applications, and Support, and further delineated into either assembly or HOL (Higher Order Language). In addition, these data pertain to the Software Engineering functions only, and do not include the Systems Engineering or Test organizations and their related activities. Also, the respective life cycle phases addressed were requirements, design, code, and test. (These data do not include the planning or maintenance phases.)

Figure 2.-3 illustrates the plot of these seven (7) AVIONICS data points for a log-log scale. In addition, the circled points labeled F-111, and AWACS represent previous programs which were similar in nature to the current data obtained. The generic form of the fitted equation is a straight line given by:

$$\log(\text{HOURS}) = \log(\text{CONSTANT}) + (\text{EXPONENT})\log(\text{HOL EQ}).$$

Obviously, the (EXPONENT) coefficient represents the slope of the line, which is also the productivity factor. For this sample plot, the value obtained is approximately 3.9 Hours/LOC. This now represents a sample value for use in the SASET model. Also, the AVIONICS functions associated with this data base will be included in the SASET model. These data will conform to the indexing system developed in the following section. (Section 3.2, Functional Sizing of AVIONICS Data).

It is anticipated that additional effort will be devoted to refine the AVIONICS data base. For example, the LANTIRN program contains pertinent cost, sizing, and schedule data concerning the individual CPCI's developed, down to the module level.

Table 2.-1 Summary of AVIONICS S/W Programs

- (1) PAE (Precision Attack Enhancement)
AVIONICS Support S/W
17,000 HOL Source Lines of Code
Language - Jovial. New HOL equivalents: 17,000
33,864 hours for S/W Development
- (2) Laser Spot Tracker (on board F-18)
AVIONICS Applications S/W
9,082 Assembly Language Source Lines of Code
Language - Assembly. New HOL equivalents, 2,331
16,268 hours for S/W Development
- (3) TAD's (Laser System on Apache Helicopter)
AVIONICS Applications S/W
21,000 Assembly Language Source Lines of Code
Language - Assembly. New HOL equivalents: 6,167
25,232 hours for S/W Development.
- (4) ASSAULT BREAKER
AVIONICS Applications S/W
12,200 Assembly Language Source Lines of Code
Language - Assembly. New HOL equivalents: 4,067
15,438 hours for S/W Development.
- (5) Single Seat Aircraft (night attack fighter)
AVIONICS Applications S/W
8,000 Assembly Language Source Lines of Code
Language - Assembly. New HOL equivalents: 2,667
10,641 hours for S/W Development.
- (6) Operational Flight Program (close air support)
AVIONICS Applications S/W
14,100 Assembly Language Source Lines of Code
Language - Assembly. New HOL equivalents: 4,700
19,721 hours for S/W Development.
- (7) LANTIRN
AVIONICS Applications S/W
310,000 Source Lines of Code (Assembly/Fortran)
265,428 new HOL equivalents.
614,200 hours for S/W Development.

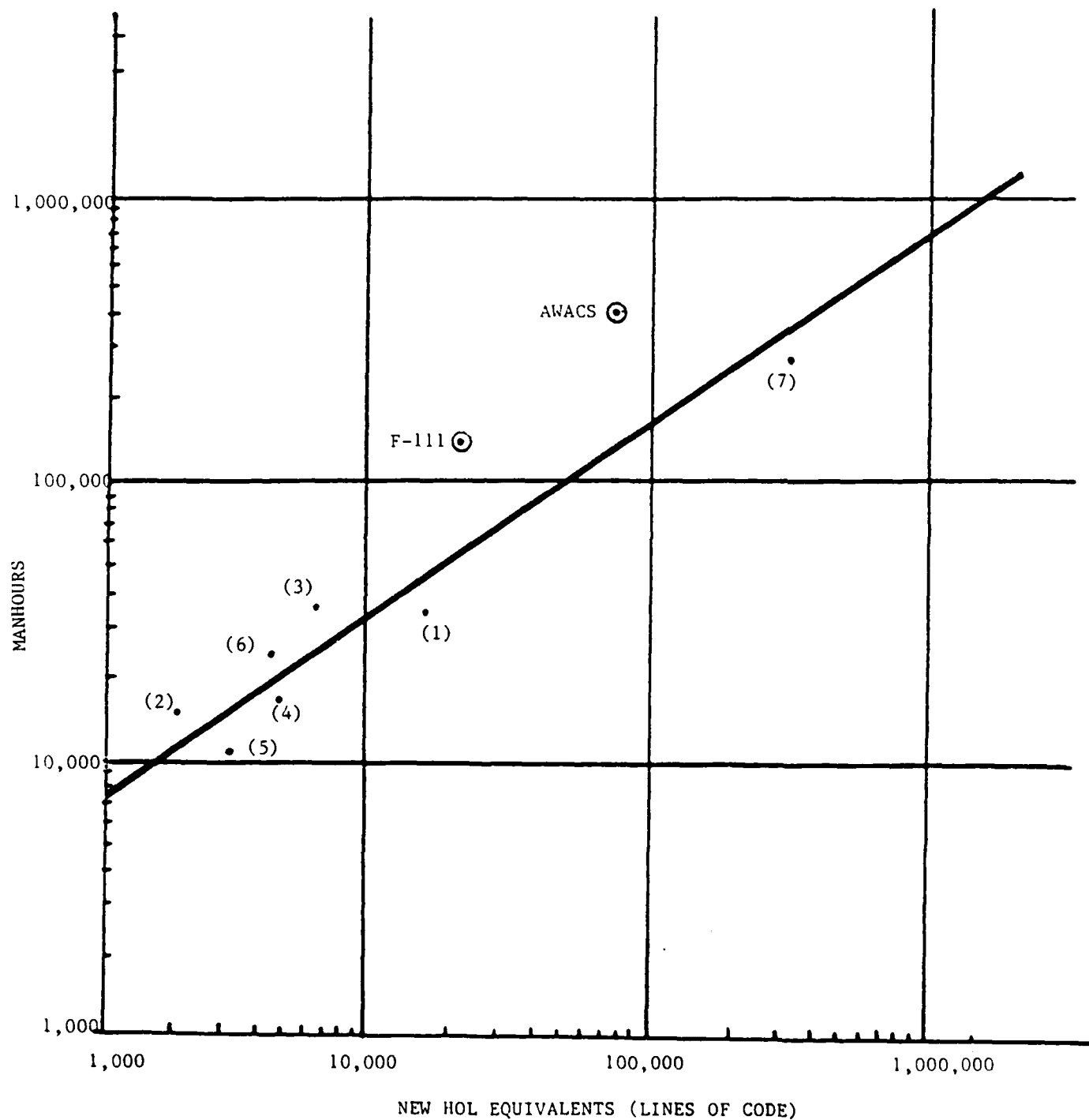


Figure 2.-3

PLOT OF NEW HOL EQUIVALENTS VS. MANHOURS

III. Functional Sizing of AVIONICS Data

Table 3.-2 illustrates the overall scheme for categorizing software functional data. This specific classification hierarchy was obtained from the most recent (January, 1987) ASPS Cost Reporting Document (Section VIII, Software Reporting Requirements). Although AVIONICS is delineated as a special category, it should be noted that other given platforms, such as space-borne or shipboard, do indeed have similar functions described by index elements 2.1 to 2.6. Also, the "Off-Line Training" (comprising index elements 15.1 to 15.4) has been reconfigured into two (2) Data Reduction items (Category A and B) to reflect activities involving moderate and extensive processing requirements, in either real-time or off-line modes. This functional list is utilized as a template for subsequently structuring the SASET model data base. In some instances an additional level of indexing was used to describe lower level functions. For example, when representing the functional activities for "Processing Software" under "Modeling", the SASET data base hierarchy will index to two lower levels, i.e., type of "modeling" and the respective parameters associated with the "modeling" functions. Thus, Rapid Prototyping (type of modeling) has sub-categories of requirements, design, graphics, etc, as indenture levels.

Some Normalized Functional Sizing Statistics for AVIONICS are shown in Table 3.-3. These data were originally obtained from ARINC Research Corporation, technical report "Software Sizing and Cost Estimation", (July, 1985) prepared for the Office of the Controller (NCDS), Department of the Navy, Washington, D.C. under Contract N00600-87-D-4045, Delivery Order No. 0003, CDRL Item No. A0002. However, these respective values have been modified using both updated data and the algorithms formulated in the SASET model to reflect nominal baseline numbers. The resultant processed values are used as input to the SASET models. The SASET modifications reflect an increase of approximately 73%. This factor takes into account both the skewness of the distribution used in the SASET sizing algorithms, and the range of three (3) sigma values covered by these functions.

TABLE 3.-2

Software Functions

<u>Category</u>	<u>Index</u>	<u>Function</u>
Displays	1.1	Avionics
	1.2	Command, Control, & Communications
	1.3	Other
Avionics	2.1	Mission Planning
	2.2	Navigation
	2.3	Aircraft Steering Flight Control
	2.4	Sighting, Designation & Location Determination
	2.5	Weapon Delivery
	2.6	Electronic Countermeasures
	2.7	Other
Command, Control & Communication	3.1	Network Monitoring
	3.2	Network Control & Switching
	3.3	Sensor Control
	3.4	Signal Processing
	3.5	Message Processing
	3.6	Message Distribution
	3.7	Message Logging & Retrieval
	3.8	Data Reduction
	3.9	Other
Executive	4.1	Computer Resource Management
	4.2	Computer Operator Interface
	4.3	Other Terminal Operator Interface
	4.4	Special Device Interface
	4.5	Other Input or Output
	4.6	Error Handling/Reconfiguration/Recovery
	4.7	Multicomputer Configuration Control
	4.8	Performance Monitoring & Data Collection
	4.9	Other
Data Base	5.1	On-line Data Base Retrieval & Output
	5.2	On-line Data Base Initialization & Updating
	5.3	Other
Training	6.1	Control of Exercise Sequencing
	6.2	Operator Performance Data Collection
	6.3	Other
On-Line Equipment Diagnostic	7.1	System Readiness Test
	7.2	Computer Diagnostic
	7.3	Memory Diagnostic
	7.4	Display Diagnostic
	7.5	Switch/Indication Panel Diagnostic
	7.6	I/O Diagnostic
	7.7	Mod Diagnostic
	7.8	Other

TABLE 3.-2

Software Functions (continued)

<u>Category</u>	<u>Index</u>	<u>Function</u>
Operating System	8.1	Computer Resource Management
	8.2	Computer Operator Interface
	8.3	Terminal Operator Interface
	8.4	Input or Output
	8.5	Error Handling/Reconfiguration/Recovery
	8.6	Performance Monitoring & Data Collection
	8.7	Other
Equipment Maintenance	9.1	Off-Line Computer Diagnostics
	9.2	Other
Software	10.1	Higher-Order Language Compiler
	10.2	Assembler
	10.3	Debugger
	10.4	Loader or Editor
	10.5	Other
Off-Line Data Base Management	11.1	Data Base Definition
	11.2	Data Base Initialization & Updating
	11.3	Data Base Retrieval & Output Formatting
	11.4	Data Base Restructuring
	11.5	Off-Line Data Base
	11.6	Other
Design	12.1	Data Base Design
	12.2	Data Base Processor Design
	12.3	Performance Simulation
	12.4	Data Reduction
	12.5	Data Analysis
	12.6	Other
Test Software	13.1	Test Case Generation
	13.2	Test Case Data Recording
	13.3	Test Data Reduction
	13.4	Test Analysis
	13.5	Other
Utilities	14.1	Media Conversions
	14.2	Format Translation
	14.3	Sort/Merge
	14.4	Program Library Maintenance
	14.5	Other

TABLE 3.-2

Software Functions (continued)

<u>Category</u>	<u>Index</u>	<u>Function</u>
Off-Line Training	15.1	Data Reduction, Category A
	15.2	Data Reduction, Category B
	15.3	Scenario Preparation
	15.4	Other
Project Management	16.1	Project Event Status Account
	16.2	Schedule Maintenance/Projection
	16.3	Financial Accounting
	16.4	Software Cost Reporting
	16.5	Hardware Cost Reporting
	16.6	Software Cost Prediction
	16.7	Hardware Cost Prediction
	16.8	Other
Hardware Subsystem Simulations	17.1	Interfacing Hardware Simulations
	17.2	Environmental Simulators
	17.3	Operator Action Simulations
	17.4	Other

TABLE 3.-3
NORMALIZED FUNCTIONAL SIZING STATISTICS FOR AVIONICS

Function Index	ARINC Average Size (LOC)*	SASET Average Size (LOC)*
1.1	633	1096
1.2	2888	5000
1.3	4199	7273
2.2	1376	2383
2.4	2106	3648
2.5	9000	15590
2.6	7057	12223
2.7	3567	6178
3.1	7164	12400
3.2	4296	7440
3.3	5661	9800
3.4	2741	4747
3.5	8220	14237
3.6	1211	2100
3.9	1232	2100
4.1	4129	7150
4.2	6212	10760
4.3	12501	21650
4.4	2512	4350
4.5	560	970
4.8	3434	5950
5.1	6172	10600
5.2	1314	2275
5.3	9021	15625
7.1	898	1555
10.3	795	1375
13.1	3935	6815
13.4	10963	18988
17.1	229	400
17.2	9000	15588

* LINES OF CODE (HOL equivalent)
Less Comments

IV. Calibration of AVIONICS Data

Figures 4.-1 through 4.-12 illustrate typical calibration curves obtained using the mix complexity and project complexity parameters defined in reference (2) "Cost Drivers Report." The respective curves are based upon AVIONICS data from over 150 real world software development projects. The equation plotted has the following generic form:

$$(\text{Productivity}) = (\text{Factor}) (\text{Conversion}) (\text{Mix})^{C_1} (\text{Prog})^{C_2}$$

The four (4) plots shown for each type of software (Systems, Application, Support) illustrate the sensitivity of the corresponding independent variable used. As can be observed from the curves, these data are well within the range of the productivity factor derived from the CER given in Figure 2.-1. Furthermore, the overall variation of complexity factors defined can be utilized to obtain fine gradations of productivity factors within each type of software. Thus, SASET can be validated using the table look-ups from which the plots were originally derived.

Appendix I illustrates the tabular data associated with the curves illustrated above (Application Software). Only a sample segment of the data are illustrated. This includes variations and sensitivity analysis when each of the four (4) variables (Factor, Conversion, Mix, and Program variables) given by the above equation are treated as "independent" variables. Similar tables are formulated for Systems and Support software.

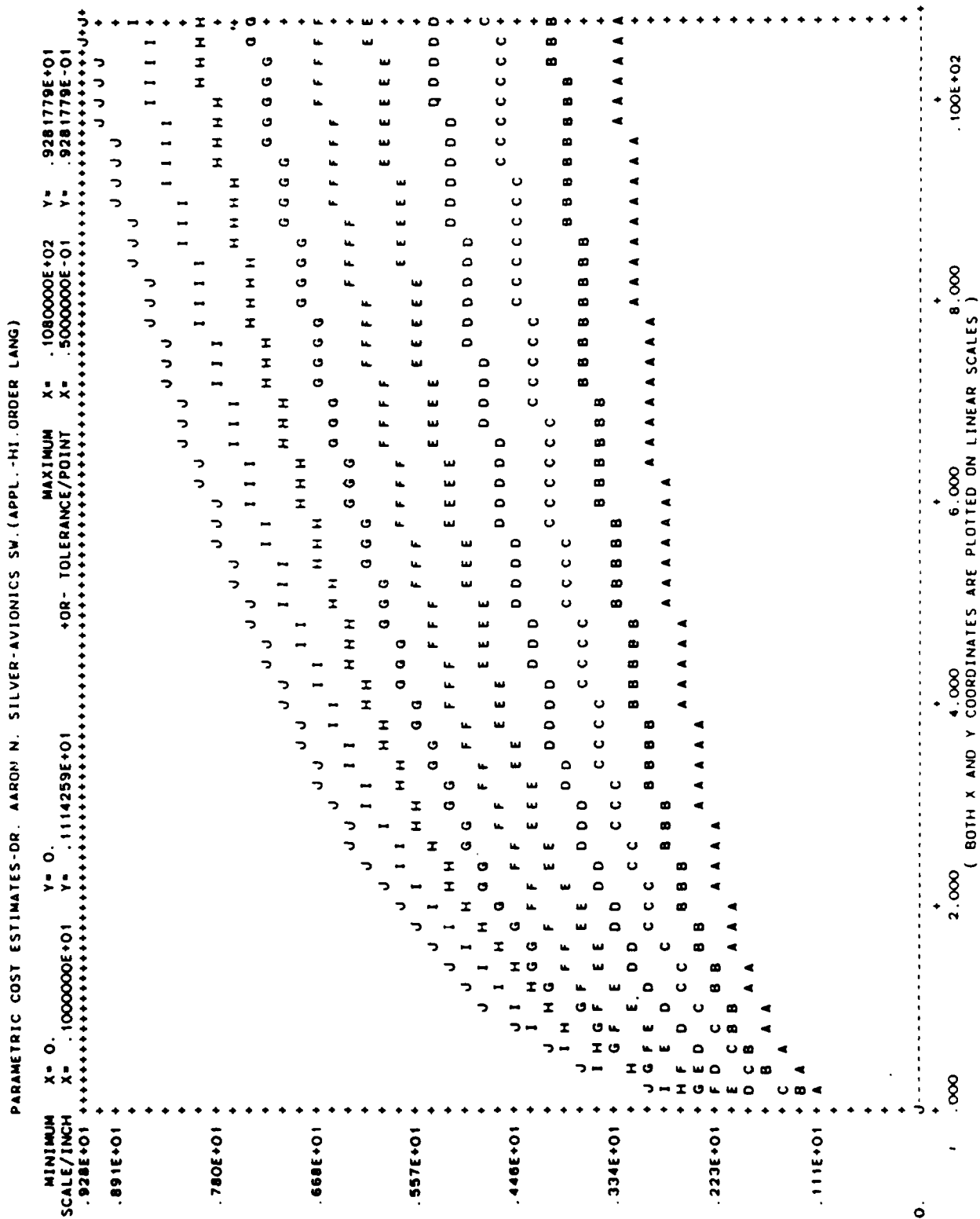
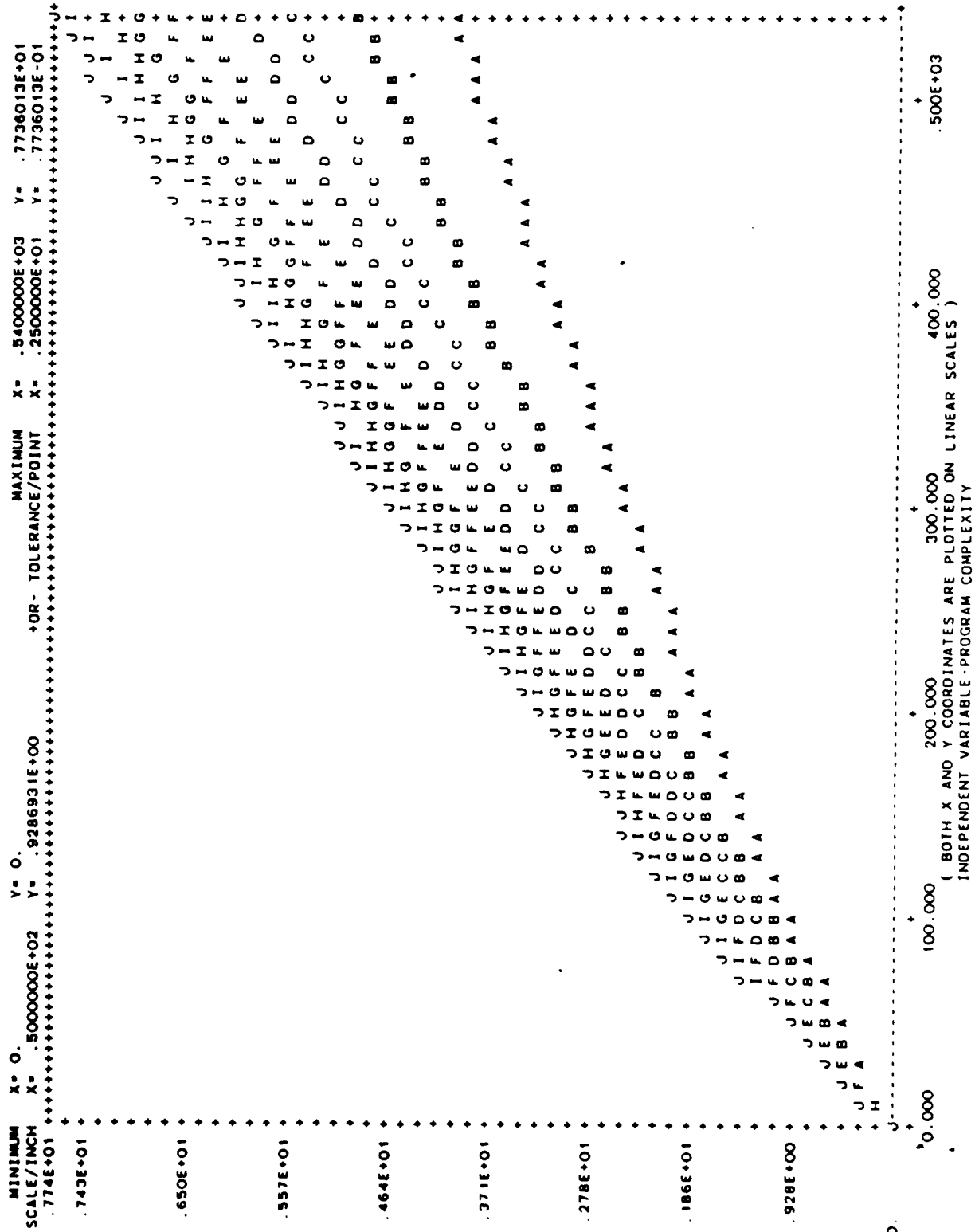


Figure 4.-1 PLOT OF PRODUCTIVITY (MAN-HRS/LOC) VS. MIX COMPLEXITY (PC=200-650)

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL.-HI. ORDER LANG)



PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-ATONICS SW.(APPL.-HI-ORDER LANG)

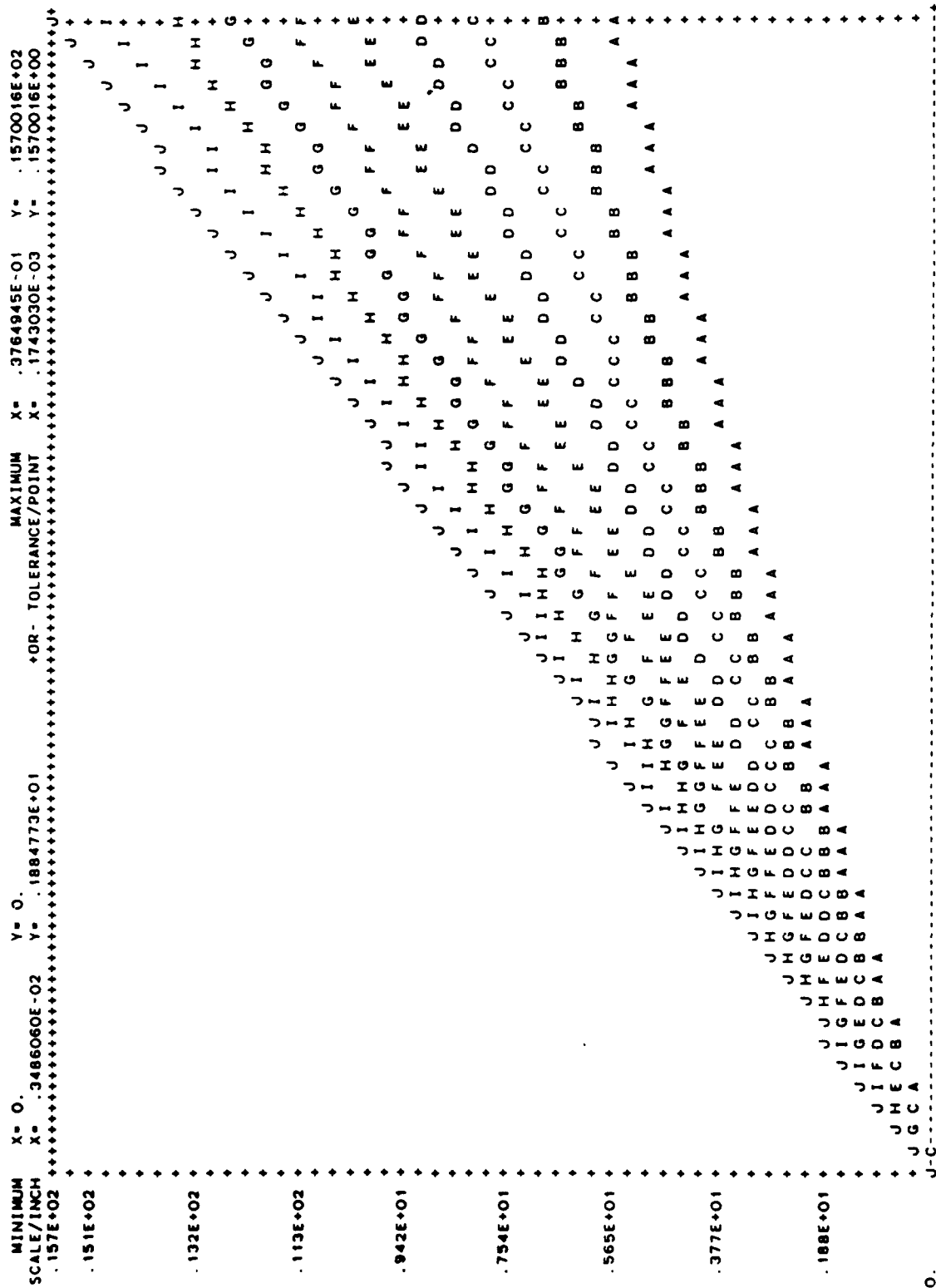


Figure 4.-3 PLOT OF PRODUCTIVITY (HRS/LOC) VS. HOL/ASSM (MC=4.5, PC=200-650)

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (SYST. -HI. ORDER LANG)

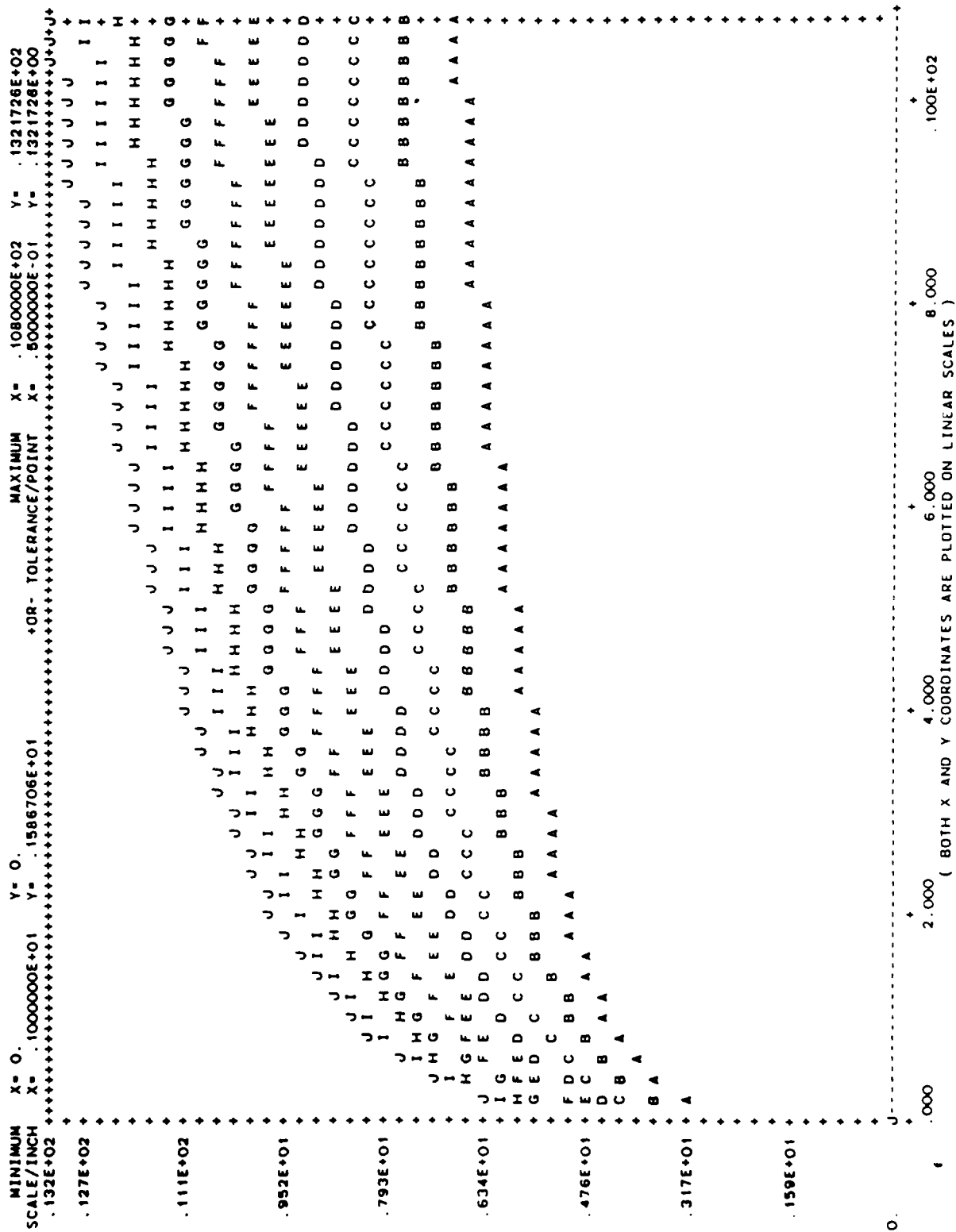
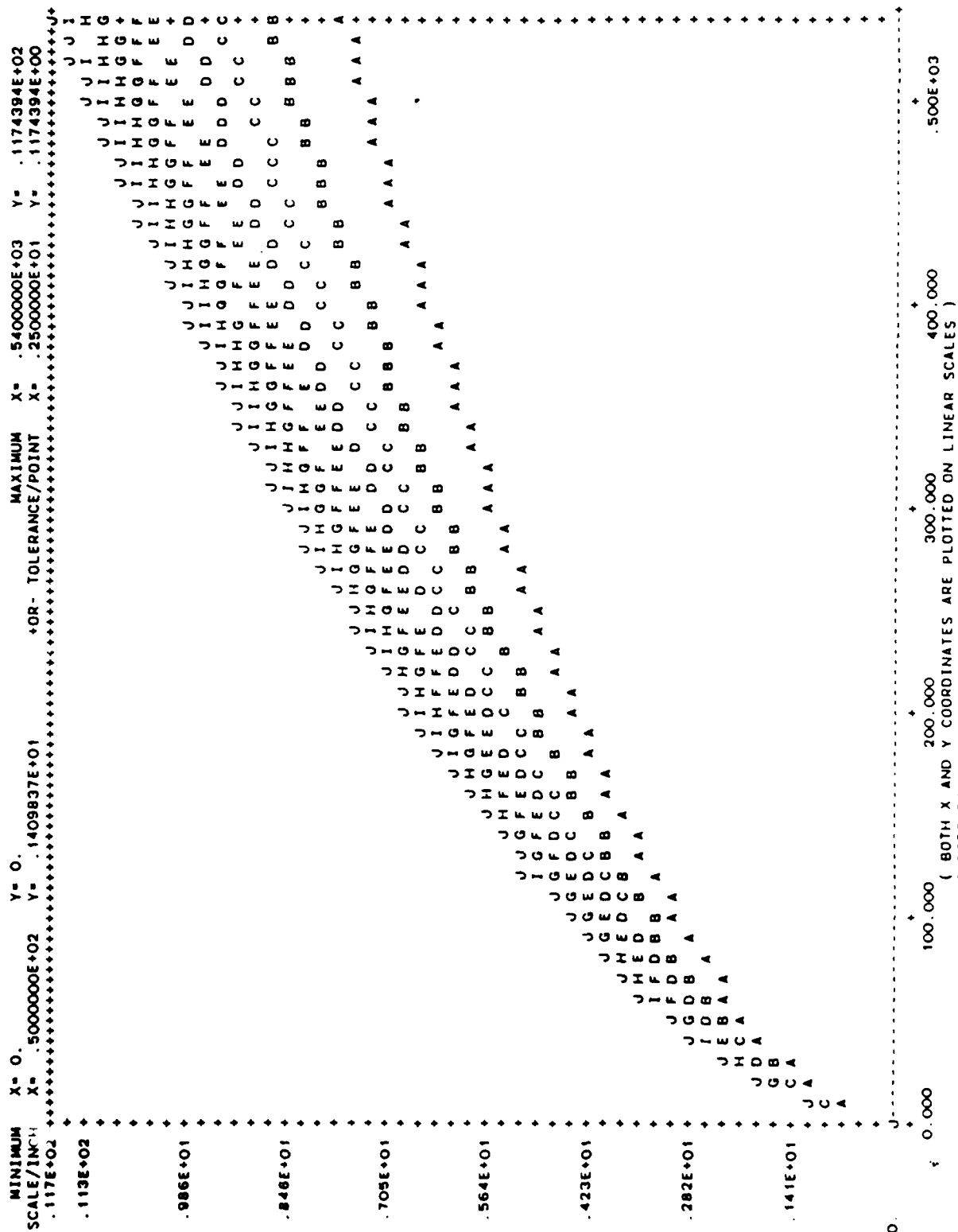


Figure 4.-5

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (SYST.-HI. ORDER LANG)



PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (SYST.-HI. ORDER LANG)

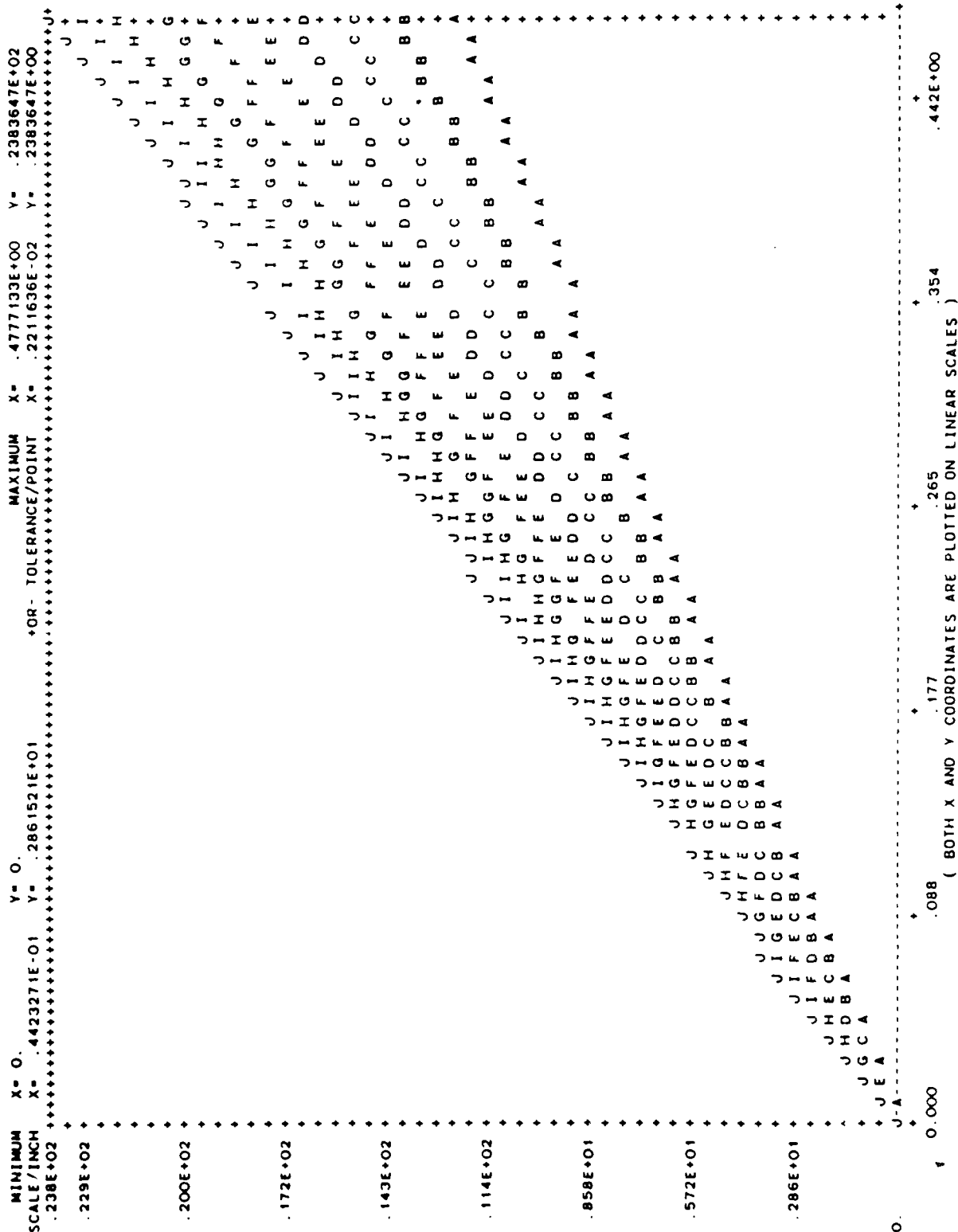


Figure 4.-7

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (SYST. -HI. ORDER LANG)

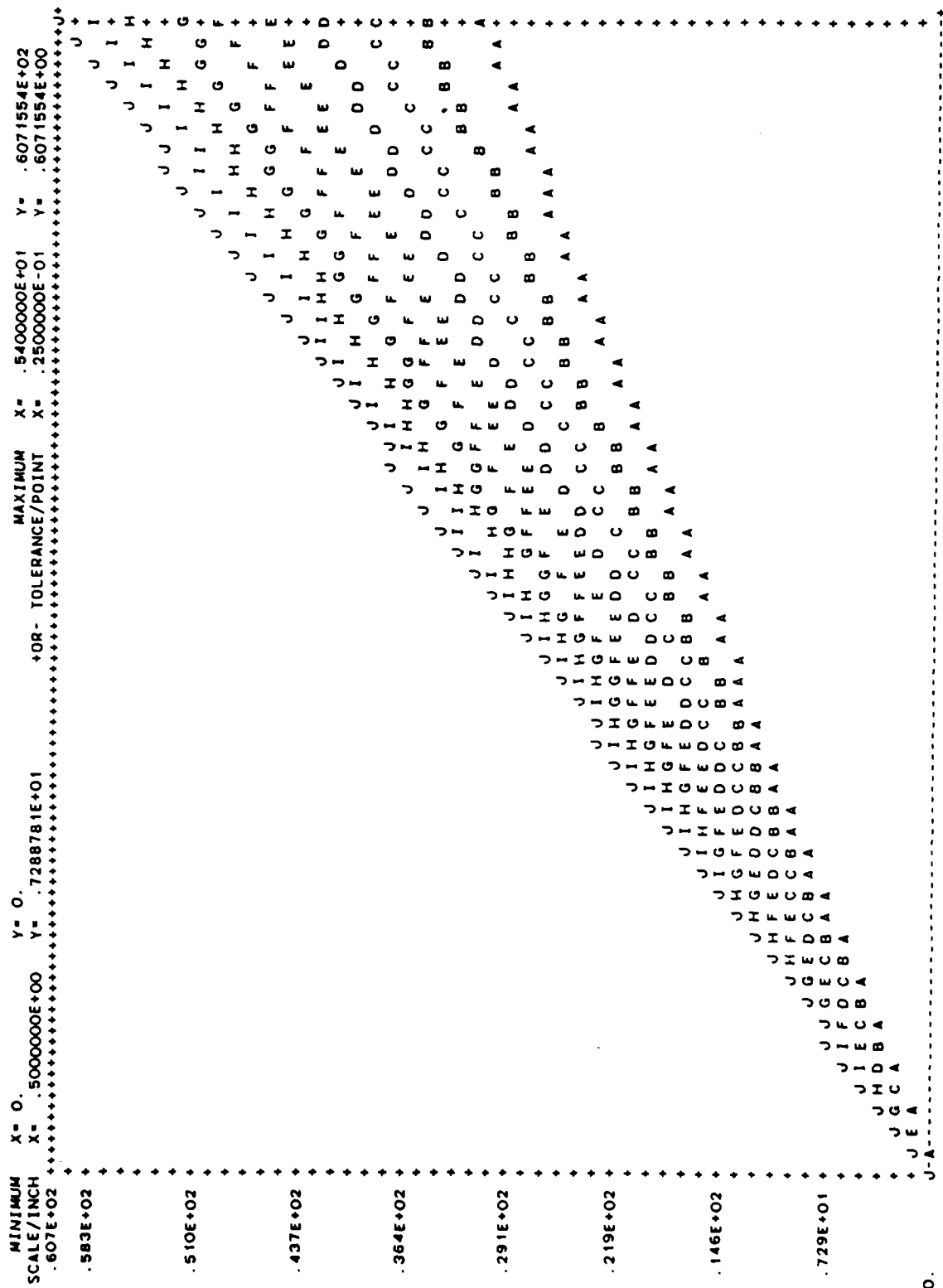


Figure 4.-8

PLOT OF PRODUCTIVITY (HRS/LOC) VS. FACTOR (MC-4.5, PC-200-650)

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (SUPT.-HI ORDER LANG)

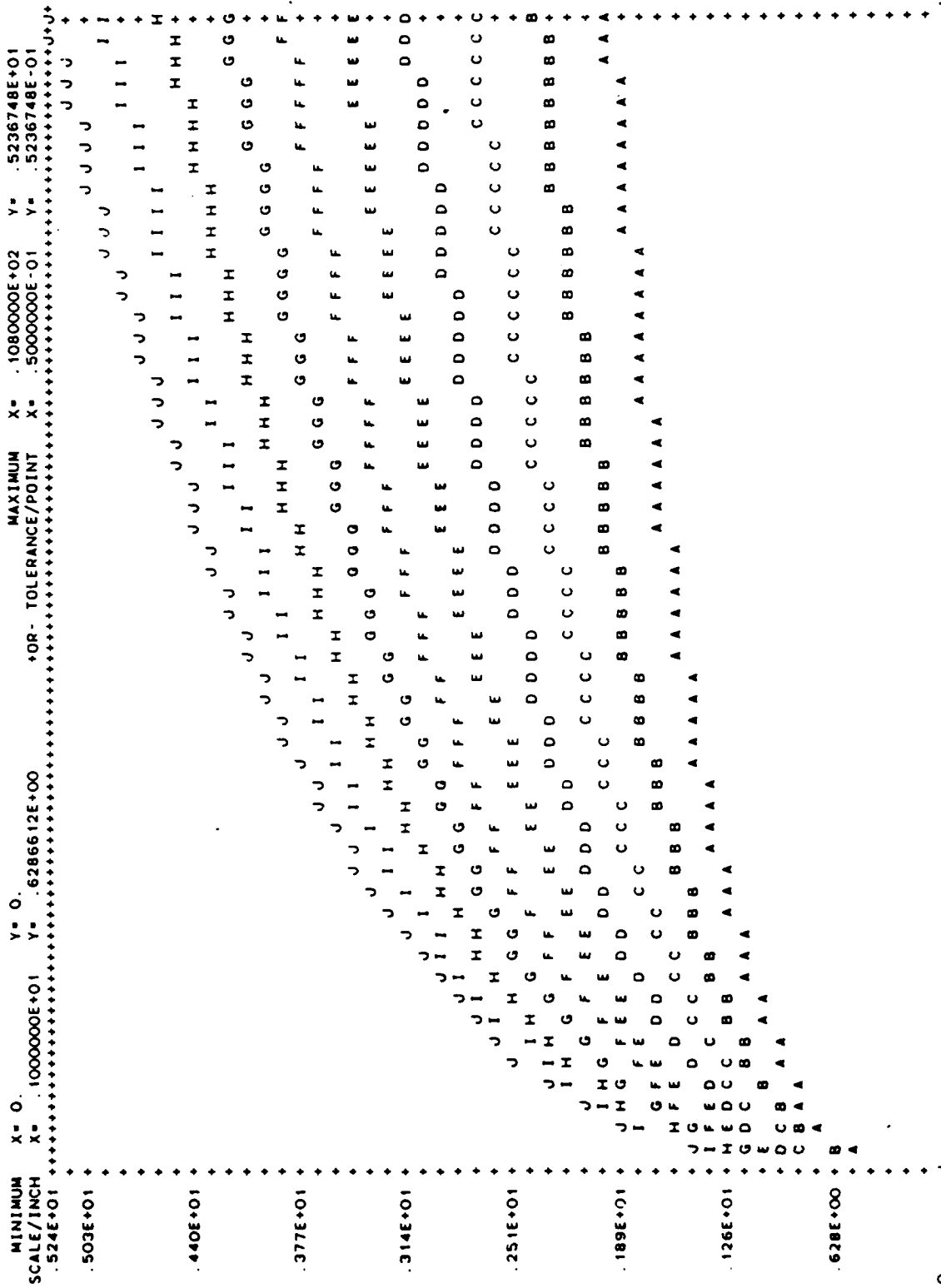


Figure 4.-9

PLOT OF PRODUCTIVITY (HRS/LOC) VS. MIX COMPLEXITY (PC=200-650)

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW.(SUPT.-HI. ORDER LANG)

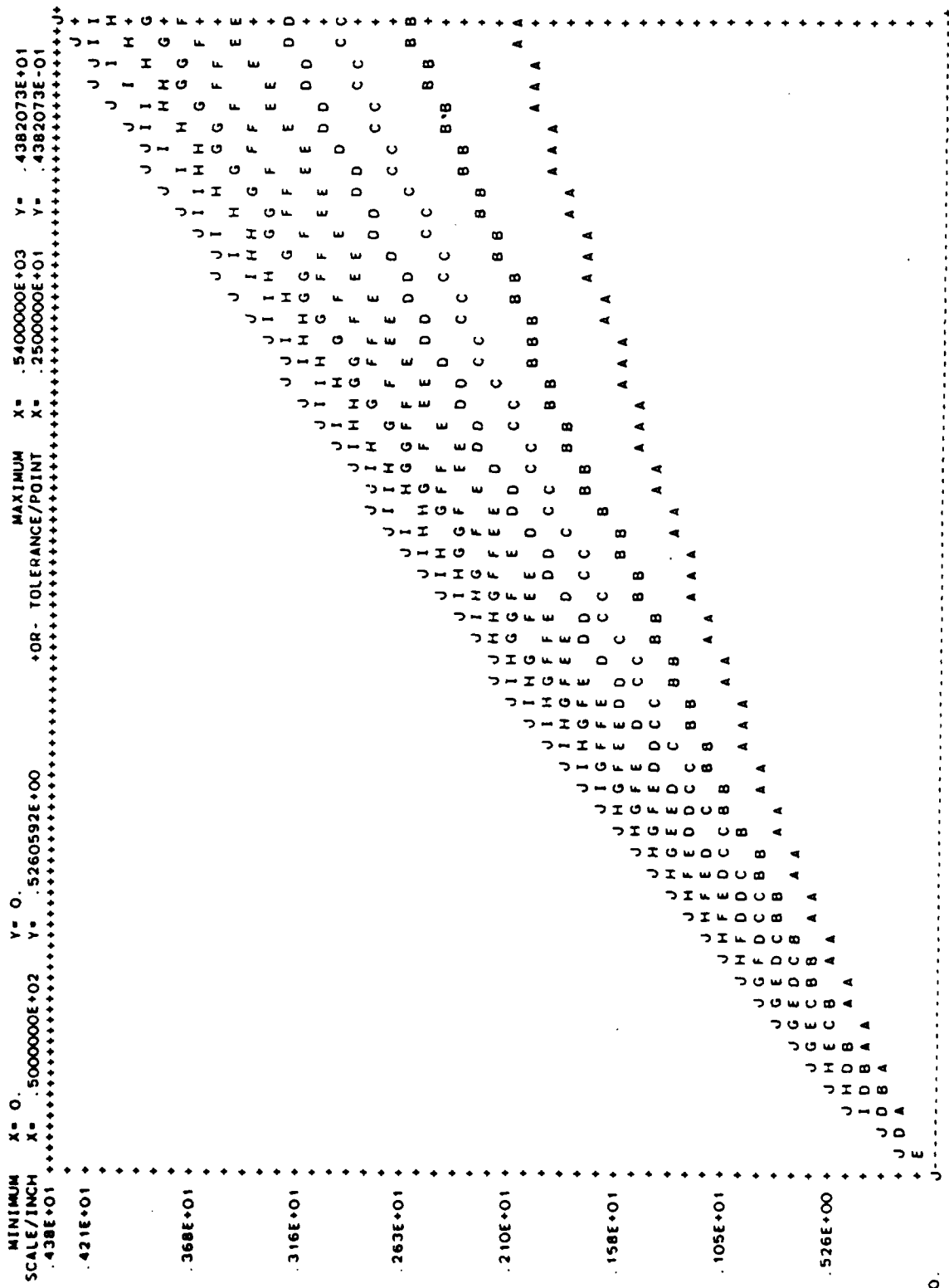


Figure 4.-10

Figure 4.-10 PLOT OF PRODUCTIVITY (MRS/LOC) VS. PROGRAM COMPLEXITY (MC-1 TO 10)

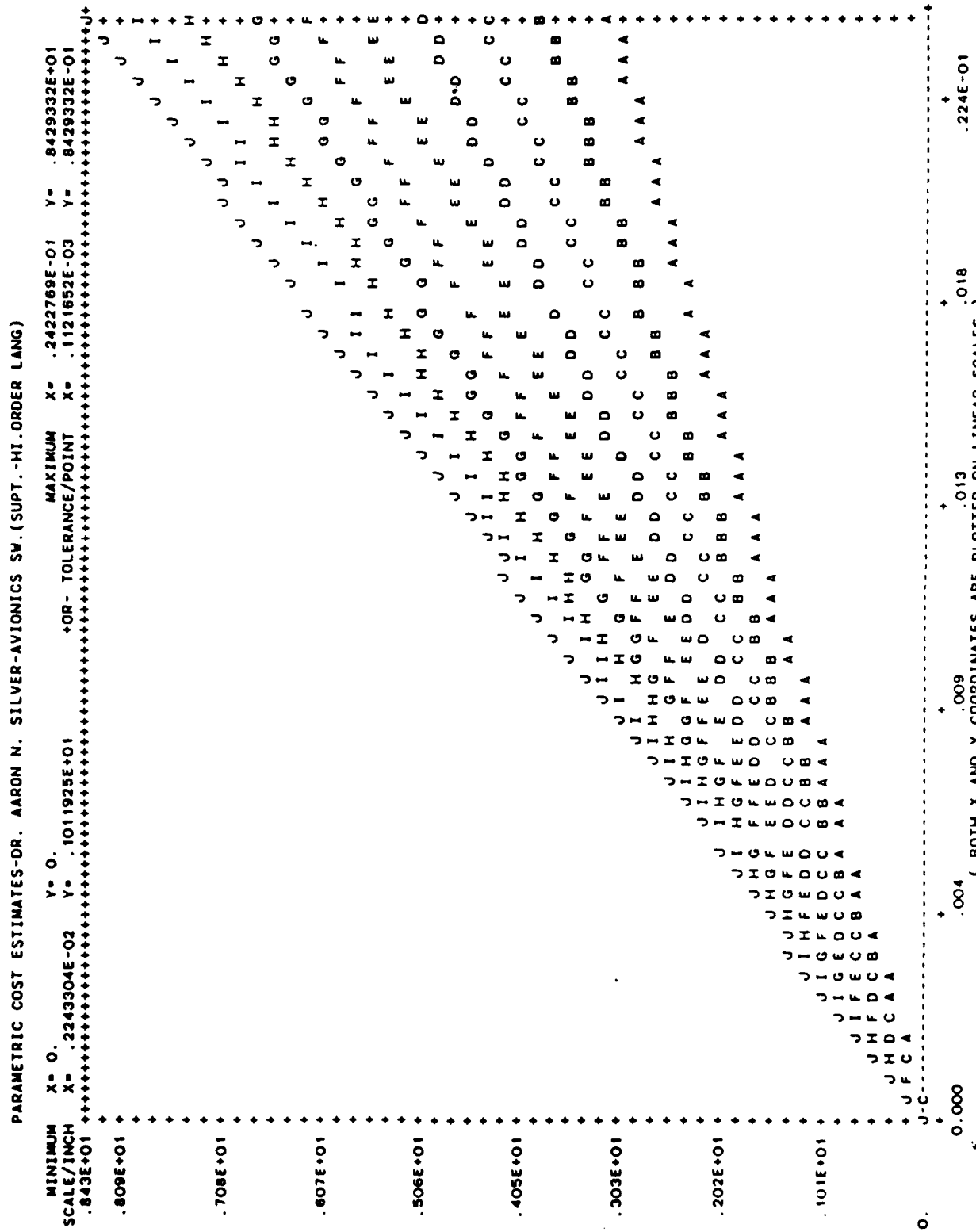


Figure 4.-11

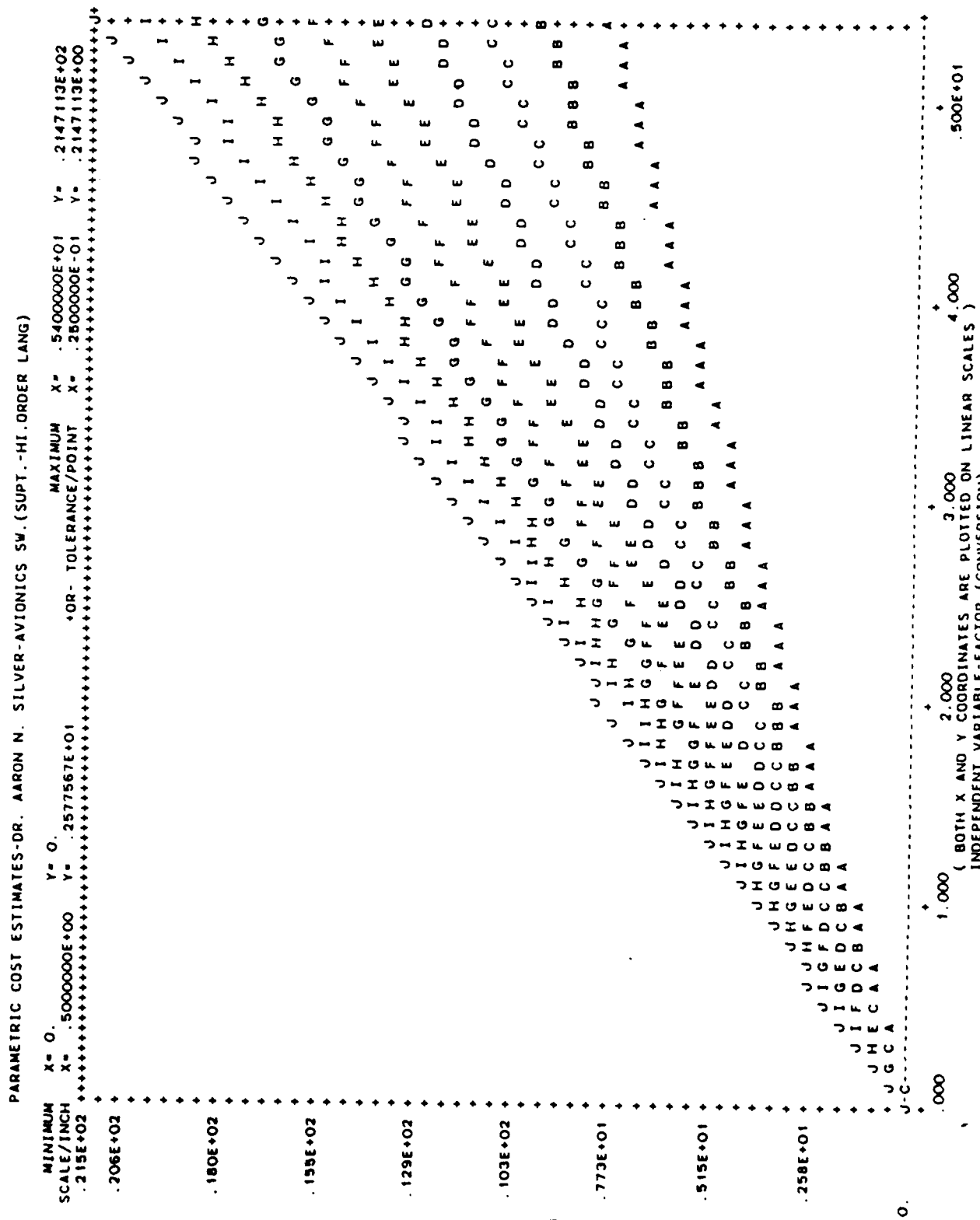


Figure 4.-12 PLOT OF PRODUCTIVITY (HRS/LOC) VS. FACTOR (MC=4.5, PC=200-650)

=====OUTPUT COMPUTATIONS=====

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-ATONICS SW. (APPL. -HI. ORDER LANG.)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=			1.000		
	IND. VAR.	DEP. VAR.	HI. VAL.	200.000	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000	
2	.200	1.097	1.207	1.207	1.042	
3	.400	1.331	1.464	1.464	1.265	
4	.600	1.491	1.640	1.640	1.416	
5	.800	1.616	1.777	1.777	1.535	
6	1.000	1.720	1.892	1.892	1.634	
7	1.200	1.809	1.990	1.990	1.719	
8	1.400	1.889	2.078	2.078	1.795	
9	1.600	1.961	2.157	2.157	1.863	
10	1.800	2.026	2.229	2.229	1.925	
11	2.000	2.087	2.296	2.296	1.982	
12	2.200	2.143	2.357	2.357	2.036	
13	2.400	2.196	2.415	2.415	2.086	
14	2.600	2.245	2.470	2.470	2.133	
15	2.800	2.292	2.522	2.522	2.178	
16	3.000	2.337	2.571	2.571	2.220	
17	3.200	2.380	2.617	2.617	2.261	
18	3.400	2.420	2.662	2.662	2.299	
19	3.600	2.459	2.705	2.705	2.336	
20	3.800	2.497	2.746	2.746	2.372	
21	4.000	2.533	2.786	2.786	2.406	
22	4.200	2.567	2.824	2.824	2.439	
23	4.400	2.601	2.861	2.861	2.471	
24	4.600	2.633	2.897	2.897	2.502	
25	4.800	2.665	2.931	2.931	2.532	
26	5.000	2.695	2.965	2.965	2.561	
27	5.200	2.725	2.998	2.998	2.589	
28	5.400	2.754	3.029	3.029	2.616	
29	5.600	2.782	3.060	3.060	2.643	
30	5.800	2.809	3.090	3.090	2.669	
31	6.000	2.836	3.120	3.120	2.694	
32	6.200	2.862	3.148	3.148	2.719	
33	6.400	2.888	3.177	3.177	2.743	
34	6.600	2.913	3.204	3.204	2.767	
35	6.800	2.937	3.231	3.231	2.790	
36	7.000	2.961	3.257	3.257	2.813	
37	7.200	2.984	3.283	3.283	2.835	
38	7.400	3.007	3.308	3.308	2.857	
39	7.600	3.030	3.333	3.333	2.878	
40	7.800	3.052	3.357	3.357	2.899	
41	8.000	3.073	3.381	3.381	2.920	
42	8.200	3.095	3.404	3.404	2.940	
43	8.400	3.116	3.427	3.427	2.960	
44	8.600	3.136	3.450	3.450	2.979	
45	8.800	3.156	3.472	3.472	2.999	
46	9.000	3.176	3.494	3.494	3.017	
47	9.200	3.196	3.515	3.515	3.036	
48	9.400	3.215	3.537	3.537	3.054	
49	9.600	3.234	3.557	3.557	3.072	
50	9.800	3.253	3.578	3.578	3.090	

PARAMETRIC COST ESTIMATES-DR. ARRON N. SILVER AVIONICS SW (APPL. HI ORDER LANG)

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.	LO. VAL.
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.		
1	0.000	0.000	0.000	0.000	0.000	0.000
2	.200	1.331	1.464	1.265	1.265	1.265
3	.400	1.615	1.777	1.535	1.535	1.535
4	.600	1.809	1.990	1.719	1.719	1.719
5	.800	1.960	2.156	1.862	1.862	1.862
6	1.000	2.086	2.295	1.982	1.982	1.982
7	1.200	2.195	2.415	2.086	2.086	2.086
8	1.400	2.292	2.521	2.177	2.177	2.177
9	1.600	2.379	2.617	2.260	2.260	2.260
10	1.800	2.459	2.705	2.336	2.336	2.336
11	2.000	2.532	2.785	2.405	2.405	2.405
12	2.200	2.600	2.860	2.470	2.470	2.470
13	2.400	2.664	2.931	2.531	2.531	2.531
14	2.600	2.725	2.997	2.588	2.588	2.588
15	2.800	2.782	3.060	2.642	2.642	2.642
16	3.000	2.836	3.119	2.694	2.694	2.694
17	3.200	2.887	3.176	2.743	2.743	2.743
18	3.400	2.937	3.230	2.790	2.790	2.790
19	3.600	2.984	3.282	2.835	2.835	2.835
20	3.800	3.029	3.332	2.878	2.878	2.878
21	4.000	3.073	3.380	2.919	2.919	2.919
22	4.200	3.115	3.427	2.959	2.959	2.959
23	4.400	3.156	3.471	2.998	2.998	2.998
24	4.600	3.195	3.515	3.035	3.035	3.035
25	4.800	3.233	3.557	3.072	3.072	3.072
26	5.000	3.270	3.597	3.107	3.107	3.107
27	5.200	3.306	3.637	3.141	3.141	3.141
28	5.400	3.341	3.676	3.174	3.174	3.174
29	5.600	3.376	3.713	3.207	3.207	3.207
30	5.800	3.409	3.750	3.238	3.238	3.238
31	6.000	3.441	3.785	3.269	3.269	3.269
32	6.200	3.473	3.820	3.299	3.299	3.299
33	6.400	3.504	3.854	3.329	3.329	3.329
34	6.600	3.534	3.887	3.357	3.357	3.357
35	6.800	3.564	3.920	3.385	3.385	3.385
36	7.000	3.593	3.952	3.413	3.413	3.413
37	7.200	3.621	3.983	3.440	3.440	3.440
38	7.400	3.649	4.014	3.466	3.466	3.466
39	7.600	3.676	4.044	3.492	3.492	3.492
40	7.800	3.703	4.073	3.518	3.518	3.518
41	8.000	3.729	4.102	3.543	3.543	3.543
42	8.200	3.755	4.130	3.567	3.567	3.567
43	8.400	3.780	4.158	3.591	3.591	3.591
44	8.600	3.805	4.186	3.615	3.615	3.615
45	8.800	3.830	4.213	3.638	3.638	3.638
46	9.000	3.854	4.239	3.661	3.661	3.661
47	9.200	3.878	4.265	3.684	3.684	3.684
48	9.400	3.901	4.291	3.706	3.706	3.706
49	9.600	3.924	4.316	3.728	3.728	3.728
50	9.800	3.947	4.341	3.749	3.749	3.749
51	10.000	3.969	4.366	3.770	3.770	3.770
52	10.200	3.991	4.390	3.791	3.791	3.791
53	10.400	4.013	4.414	3.812	3.812	3.812

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)-----

		HIGH PERTURBATION VALUE=		.1000	
		LOW PERTURBATION VALUE =		.0500	
NO. TERMS		OUTER LOOP PARAMETER=		1.000	
		INNER LOOP PARAMETER=		300.000	
		IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.
1		0.000	0.000	0.000	0.000
2		.200	1.559	1.715	1.481
3		.400	1.892	2.081	1.797
4		.600	2.119	2.331	2.013
5		.800	2.296	2.526	2.181
6		1.000	2.444	2.688	2.321
7		1.200	2.571	2.828	2.443
8		1.400	2.684	2.953	2.550
9		1.600	2.786	3.065	2.647
10		1.800	2.879	3.167	2.736
11		2.000	2.965	3.262	2.817
12		2.200	3.045	3.350	2.893
13		2.400	3.120	3.432	2.964
14		2.600	3.191	3.510	3.031
15		2.800	3.258	3.583	3.095
16		3.000	3.321	3.653	3.155
17		3.200	3.381	3.720	3.212
18		3.400	3.439	3.783	3.267
19		3.600	3.494	3.844	3.320
20		3.800	3.548	3.902	3.370
21		4.000	3.599	3.959	3.419
22		4.200	3.648	4.013	3.466
23		4.400	3.696	4.065	3.511
24		4.600	3.742	4.116	3.555
25		4.800	3.787	4.165	3.597
26		5.000	3.830	4.213	3.639
27		5.200	3.872	4.260	3.679
28		5.400	3.913	4.305	3.718
29		5.600	3.953	4.349	3.756
30		5.800	3.992	4.392	3.793
31		6.000	4.030	4.433	3.829
32		6.200	4.067	4.474	3.864
33		6.400	4.104	4.514	3.898
34		6.600	4.139	4.553	3.932
35		6.800	4.174	4.591	3.965
36		7.000	4.208	4.628	3.997
37		7.200	4.241	4.665	4.029
38		7.400	4.273	4.701	4.060
39		7.600	4.305	4.736	4.090
40		7.800	4.337	4.770	4.120
41		8.000	4.367	4.804	4.149
42		8.200	4.398	4.837	4.178
43		8.400	4.427	4.870	4.206
44		8.600	4.457	4.902	4.234
45		8.800	4.485	4.934	4.261
46		9.000	4.514	4.965	4.288
47		9.200	4.541	4.995	4.314
48		9.400	4.569	5.026	4.340
49		9.600	4.596	5.055	4.366
50		9.800	4.622	5.084	4.391
51		10.000	4.648	5.113	4.416
52		10.200	4.674	5.141	4.440
53		10.400	4.699	5.169	4.465

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW (APPL HI ORDER LANG)

HIGH PERTURBATION VALUE = 1000
LOW PERTURBATION VALUE = 0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI VAL		LO VAL	
	IND. VAR.	DEP. VAR.	HI VAL	LO VAL	HI VAL	LO VAL	HI VAL	LO VAL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	.200	1.782	1.960	1.960	1.960	1.960	1.960	1.960
3	.400	2.162	2.162	2.162	2.162	2.162	2.162	2.162
4	.600	2.422	2.422	2.422	2.422	2.422	2.422	2.422
5	.800	2.624	2.624	2.624	2.624	2.624	2.624	2.624
6	1.000	2.793	2.793	2.793	2.793	2.793	2.793	2.793
7	1.200	2.939	2.939	2.939	2.939	2.939	2.939	2.939
8	1.400	3.068	3.068	3.068	3.068	3.068	3.068	3.068
9	1.600	3.185	3.185	3.185	3.185	3.185	3.185	3.185
10	1.800	3.291	3.291	3.291	3.291	3.291	3.291	3.291
11	2.000	3.389	3.389	3.389	3.389	3.389	3.389	3.389
12	2.200	3.481	3.481	3.481	3.481	3.481	3.481	3.481
13	2.400	3.566	3.566	3.566	3.566	3.566	3.566	3.566
14	2.600	3.647	3.647	3.647	3.647	3.647	3.647	3.647
15	2.800	3.723	3.723	3.723	3.723	3.723	3.723	3.723
16	3.000	3.796	3.796	3.796	3.796	3.796	3.796	3.796
17	3.200	3.865	3.865	3.865	3.865	3.865	3.865	3.865
18	3.400	3.931	3.931	3.931	3.931	3.931	3.931	3.931
19	3.600	3.994	3.994	3.994	3.994	3.994	3.994	3.994
20	3.800	4.055	4.055	4.055	4.055	4.055	4.055	4.055
21	4.000	4.113	4.113	4.113	4.113	4.113	4.113	4.113
22	4.200	4.170	4.170	4.170	4.170	4.170	4.170	4.170
23	4.400	4.224	4.224	4.224	4.224	4.224	4.224	4.224
24	4.600	4.277	4.277	4.277	4.277	4.277	4.277	4.277
25	4.800	4.328	4.328	4.328	4.328	4.328	4.328	4.328
26	5.000	4.378	4.378	4.378	4.378	4.378	4.378	4.378
27	5.200	4.426	4.426	4.426	4.426	4.426	4.426	4.426
28	5.400	4.473	4.473	4.473	4.473	4.473	4.473	4.473
29	5.600	4.518	4.518	4.518	4.518	4.518	4.518	4.518
30	5.800	4.563	4.563	4.563	4.563	4.563	4.563	4.563
31	6.000	4.606	4.606	4.606	4.606	4.606	4.606	4.606
32	6.200	4.649	4.649	4.649	4.649	4.649	4.649	4.649
33	6.400	4.690	4.690	4.690	4.690	4.690	4.690	4.690
34	6.600	4.731	4.731	4.731	4.731	4.731	4.731	4.731
35	6.800	4.770	4.770	4.770	4.770	4.770	4.770	4.770
36	7.000	4.809	4.809	4.809	4.809	4.809	4.809	4.809
37	7.200	4.847	4.847	4.847	4.847	4.847	4.847	4.847
38	7.400	4.884	4.884	4.884	4.884	4.884	4.884	4.884
39	7.600	4.921	4.921	4.921	4.921	4.921	4.921	4.921
40	7.800	4.957	4.957	4.957	4.957	4.957	4.957	4.957
41	8.000	4.992	4.992	4.992	4.992	4.992	4.992	4.992
42	8.200	5.026	5.026	5.026	5.026	5.026	5.026	5.026
43	8.400	5.060	5.060	5.060	5.060	5.060	5.060	5.060
44	8.600	5.094	5.094	5.094	5.094	5.094	5.094	5.094
45	8.800	5.126	5.126	5.126	5.126	5.126	5.126	5.126
46	9.000	5.159	5.159	5.159	5.159	5.159	5.159	5.159
47	9.200	5.190	5.190	5.190	5.190	5.190	5.190	5.190
48	9.400	5.222	5.222	5.222	5.222	5.222	5.222	5.222
49	9.600	5.252	5.252	5.252	5.252	5.252	5.252	5.252
50	9.800	5.283	5.283	5.283	5.283	5.283	5.283	5.283
51	10.000	5.313	5.313	5.313	5.313	5.313	5.313	5.313
52	10.200	5.342	5.342	5.342	5.342	5.342	5.342	5.342
53	10.400	5.371	5.371	5.371	5.371	5.371	5.371	5.371

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.	LO. VAL.
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.		
1	0.000	0.000	0.000	0.000	0.000	0.000
2	.200	2.000	2.000	1.900	2.200	1.900
3	.400	2.428	2.428	2.670	2.670	2.306
4	.600	2.719	2.719	2.990	2.990	2.583
5	.800	2.946	2.946	3.241	3.241	2.799
6	1.000	3.135	3.135	3.449	3.449	2.979
7	1.200	3.299	3.299	3.629	3.629	3.134
8	1.400	3.444	3.444	3.789	3.789	3.272
9	1.600	3.575	3.575	3.933	3.933	3.396
10	1.800	3.695	3.695	4.064	4.064	3.510
11	2.000	3.805	3.805	4.186	4.186	3.615
12	2.200	3.908	3.908	4.299	4.299	3.712
13	2.400	4.004	4.004	4.404	4.404	3.804
14	2.600	4.094	4.094	4.504	4.504	3.890
15	2.800	4.180	4.180	4.598	4.598	3.971
16	3.000	4.261	4.261	4.687	4.687	4.048
17	3.200	4.339	4.339	4.773	4.773	4.122
18	3.400	4.413	4.413	4.854	4.854	4.192
19	3.600	4.484	4.484	4.932	4.932	4.260
20	3.800	4.552	4.552	5.007	5.007	4.325
21	4.000	4.618	4.618	5.080	5.080	4.387
22	4.200	4.681	4.681	5.149	5.149	4.447
23	4.400	4.742	4.742	5.217	5.217	4.505
24	4.600	4.802	4.802	5.282	5.282	4.562
25	4.800	4.859	4.859	5.345	5.345	4.616
26	5.000	4.915	4.915	5.406	5.406	4.669
27	5.200	4.969	4.969	5.466	5.466	4.720
28	5.400	5.022	5.022	5.524	5.524	4.770
29	5.600	5.073	5.073	5.580	5.580	4.819
30	5.800	5.123	5.123	5.635	5.635	4.867
31	6.000	5.171	5.171	5.689	5.689	4.913
32	6.200	5.219	5.219	5.741	5.741	4.958
33	6.400	5.266	5.266	5.792	5.792	5.002
34	6.600	5.311	5.311	5.842	5.842	5.045
35	6.800	5.355	5.355	5.891	5.891	5.088
36	7.000	5.399	5.399	5.939	5.939	5.129
37	7.200	5.442	5.442	5.986	5.986	5.170
38	7.400	5.483	5.483	6.032	6.032	5.209
39	7.600	5.524	5.524	6.077	6.077	5.248
40	7.800	5.565	5.565	6.121	6.121	5.286
41	8.000	5.604	5.604	6.164	6.164	5.324
42	8.200	5.643	5.643	6.207	6.207	5.361
43	8.400	5.681	5.681	6.249	6.249	5.397
44	8.600	5.718	5.718	6.290	6.290	5.432
45	8.800	5.755	5.755	6.331	6.331	5.467
46	9.000	5.791	5.791	6.371	6.371	5.502
47	9.200	5.827	5.827	6.410	6.410	5.536
48	9.400	5.862	5.862	6.448	6.448	5.569
49	9.600	5.897	5.897	6.486	6.486	5.602
50	9.800	5.931	5.931	6.524	6.524	5.634
51	10.000	5.964	5.964	6.561	6.561	5.666
52	10.200	5.997	5.997	6.597	6.597	5.698
53	10.400	6.030	6.030	6.633	6.633	5.729

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 1.000		INNER LOOP PARAMETER= 450.000		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	.200	2.215	2.437	2.105	2.554
3	.400	2.688	2.957	2.554	2.860
4	.600	3.011	3.312	2.860	3.099
5	.800	3.263	3.589	3.099	3.299
6	1.000	3.472	3.820	3.299	3.471
7	1.200	3.654	4.019	3.471	3.624
8	1.400	3.815	4.196	3.624	3.761
9	1.600	3.959	4.355	3.761	3.887
10	1.800	4.092	4.501	3.887	4.003
11	2.000	4.214	4.635	4.003	4.111
12	2.200	4.328	4.760	4.111	4.212
13	2.400	4.434	4.878	4.212	4.308
14	2.600	4.534	4.988	4.308	4.398
15	2.800	4.629	5.092	4.398	4.483
16	3.000	4.719	5.191	4.483	4.565
17	3.200	4.805	5.286	4.565	4.643
18	3.400	4.887	5.376	4.643	4.717
19	3.600	4.966	5.462	4.717	4.789
20	3.800	5.041	5.545	4.789	4.858
21	4.000	5.114	5.625	4.858	4.925
22	4.200	5.184	5.703	4.925	4.989
23	4.400	5.252	5.777	4.989	5.052
24	4.600	5.318	5.849	5.052	5.112
25	4.800	5.381	5.919	5.112	5.171
26	5.000	5.443	5.987	5.171	5.228
27	5.200	5.503	6.053	5.228	5.283
28	5.400	5.561	6.117	5.283	5.337
29	5.600	5.618	6.180	5.337	5.390
30	5.800	5.673	6.241	5.390	5.441
31	6.000	5.727	6.300	5.441	5.491
32	6.200	5.780	6.358	5.491	5.540
33	6.400	5.831	6.414	5.540	5.588
34	6.600	5.882	6.470	5.588	5.634
35	6.800	5.931	6.524	5.634	5.680
36	7.000	5.979	6.577	5.680	5.725
37	7.200	6.026	6.629	5.725	5.769
38	7.400	6.073	6.680	5.769	5.812
39	7.600	6.118	6.730	5.812	5.854
40	7.800	6.163	6.779	5.854	5.896
41	8.000	6.206	6.827	5.896	5.937
42	8.200	6.249	6.874	5.937	5.977
43	8.400	6.291	6.921	5.977	6.016
44	8.600	6.333	6.966	6.016	6.055
45	8.800	6.374	7.011	6.055	6.093
46	9.000	6.414	7.055	6.093	6.131
47	9.200	6.453	7.099	6.131	6.168
48	9.400	6.492	7.141	6.168	6.204
49	9.600	6.530	7.184	6.204	6.240
50	9.800	6.568	7.225	6.240	6.275
51	10.000	6.605	7.266	6.275	6.310
52	10.200	6.642	7.306	6.310	6.344
53	10.400	6.678	7.346	6.344	

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		LO. VAL.	
	IND. VAR.	DEP. VAR.	HI. VAL.	500,000	LO. VAL.	1,000
1	0.000	0.000	0.000	0.000	0.000	0.000
2	.200	2.427	2.670	2.306	2.670	2.306
3	.400	2.945	3.240	2.798	3.240	2.798
4	.600	3.299	3.628	3.134	3.628	3.134
5	.800	3.575	3.932	3.396	3.932	3.396
6	1.000	3.804	4.185	3.614	4.185	3.614
7	1.200	4.003	4.403	3.803	4.403	3.803
8	1.400	4.179	4.597	3.970	4.597	3.970
9	1.600	4.338	4.772	4.121	4.772	4.121
10	1.800	4.483	4.931	4.259	4.931	4.259
11	2.000	4.617	5.079	4.386	5.079	4.386
12	2.200	4.741	5.216	4.504	5.216	4.504
13	2.400	4.858	5.344	4.615	5.344	4.615
14	2.600	4.968	5.465	4.719	5.465	4.719
15	2.800	5.072	5.579	4.818	5.579	4.818
16	3.000	5.170	5.687	4.912	5.687	4.912
17	3.200	5.264	5.791	5.001	5.791	5.001
18	3.400	5.354	5.890	5.087	5.890	5.087
19	3.600	5.441	5.985	5.169	5.985	5.169
20	3.800	5.523	6.076	5.247	6.076	5.247
21	4.000	5.603	6.163	5.323	6.163	5.323
22	4.200	5.680	6.248	5.396	6.248	5.396
23	4.400	5.754	6.330	5.466	6.330	5.466
24	4.600	5.826	6.409	5.535	6.409	5.535
25	4.800	5.896	6.485	5.601	6.485	5.601
26	5.000	5.963	6.560	5.665	6.560	5.665
27	5.200	6.029	6.632	5.727	6.632	5.727
28	5.400	6.093	6.702	5.788	6.702	5.788
29	5.600	6.155	6.771	5.847	6.771	5.847
30	5.800	6.216	6.837	5.905	6.837	5.905
31	6.000	6.275	6.902	5.961	6.902	5.961
32	6.200	6.332	6.966	6.016	6.966	6.016
33	6.400	6.389	7.028	6.069	7.028	6.069
34	6.600	6.444	7.088	6.122	7.088	6.122
35	6.800	6.498	7.148	6.173	7.148	6.173
36	7.000	6.551	7.206	6.223	7.206	6.223
37	7.200	6.603	7.263	6.272	7.263	6.272
38	7.400	6.653	7.319	6.321	7.319	6.321
39	7.600	6.703	7.373	6.368	7.373	6.368
40	7.800	6.752	7.427	6.414	7.427	6.414
41	8.000	6.800	7.480	6.460	7.480	6.460
42	8.200	6.847	7.531	6.504	7.531	6.504
43	8.400	6.893	7.582	6.548	7.582	6.548
44	8.600	6.938	7.632	6.591	7.632	6.591
45	8.800	6.983	7.681	6.634	7.681	6.634
46	9.000	7.027	7.730	6.676	7.730	6.676
47	9.200	7.070	7.777	6.717	7.777	6.717
48	9.400	7.113	7.824	6.757	7.824	6.757
49	9.600	7.155	7.870	6.797	7.870	6.797
50	9.800	7.196	7.916	6.836	7.916	6.836
51	10.000	7.237	7.961	6.875	7.961	6.875
52	10.200	7.277	8.005	6.913	8.005	6.913
53	10.400	7.317	8.048	6.951	8.048	6.951

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW.(APPL.-HI-ORDER LANG)

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	550.000	
1	0.000	0.000	0.000	0.000	0.000
2	.200	2.636	2.900	2.504	2.504
3	.400	3.199	3.519	3.039	3.039
4	.600	3.583	3.941	3.403	3.403
5	.800	3.882	4.271	3.688	3.688
6	1.000	4.132	4.545	3.925	3.925
7	1.200	4.348	4.783	4.130	4.130
8	1.400	4.539	4.993	4.312	4.312
9	1.600	4.712	5.183	4.476	4.476
10	1.800	4.869	5.356	4.626	4.626
11	2.000	5.014	5.516	4.764	4.764
12	2.200	5.150	5.665	4.892	4.892
13	2.400	5.276	5.804	5.013	5.013
14	2.600	5.396	5.935	5.126	5.126
15	2.800	5.508	6.059	5.233	5.233
16	3.000	5.616	6.177	5.335	5.335
17	3.200	5.718	6.290	5.432	5.432
18	3.400	5.815	6.397	5.525	5.525
19	3.600	5.909	6.500	5.614	5.614
20	3.800	5.999	6.599	5.699	5.699
21	4.000	6.085	6.694	5.781	5.781
22	4.200	6.169	6.786	5.860	5.860
23	4.400	6.250	6.875	5.937	5.937
24	4.600	6.328	6.960	6.011	6.011
25	4.800	6.403	7.044	6.083	6.083
26	5.000	6.477	7.124	6.153	6.153
27	5.200	6.548	7.203	6.221	6.221
28	5.400	6.617	7.279	6.287	6.287
29	5.600	6.685	7.353	6.351	6.351
30	5.800	6.751	7.426	6.413	6.413
31	6.000	6.815	7.497	6.474	6.474
32	6.200	6.878	7.565	6.534	6.534
33	6.400	6.939	7.633	6.592	6.592
34	6.600	6.999	7.699	6.649	6.649
35	6.800	7.057	7.763	6.705	6.705
36	7.000	7.115	7.826	6.759	6.759
37	7.200	7.171	7.888	6.812	6.812
38	7.400	7.226	7.949	6.865	6.865
39	7.600	7.280	8.008	6.916	6.916
40	7.800	7.333	8.066	6.966	6.966
41	8.000	7.385	8.124	7.016	7.016
42	8.200	7.436	8.180	7.064	7.064
43	8.400	7.486	8.235	7.112	7.112
44	8.600	7.536	8.289	7.159	7.159
45	8.800	7.584	8.343	7.205	7.205
46	9.000	7.632	8.395	7.251	7.251
47	9.200	7.679	8.447	7.295	7.295
48	9.400	7.725	8.498	7.339	7.339
49	9.600	7.771	8.548	7.382	7.382
50	9.800	7.816	8.597	7.425	7.425
51	10.000	7.860	8.646	7.467	7.467
52	10.200	7.904	8.694	7.508	7.508
53	10.400	7.947	8.741	7.549	7.549

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER AVIONICS SW. (APPL. -HI ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 1.000		INNER LOOP PARAMETER= 600.000		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	.200	2.843	3.127	2.700	2.700
3	.400	3.450	3.795	3.277	3.277
4	.600	3.863	4.250	3.670	3.670
5	.800	4.186	4.605	3.977	3.977
6	1.000	4.456	4.901	4.233	4.233
7	1.200	4.688	5.157	4.454	4.454
8	1.400	4.895	5.384	4.650	4.650
9	1.600	5.081	5.589	4.826	4.826
10	1.800	5.250	5.775	4.988	4.988
11	2.000	5.407	5.948	5.137	5.137
12	2.200	5.553	6.108	5.275	5.275
13	2.400	5.690	6.259	5.405	5.405
14	2.600	5.818	6.400	5.527	5.527
15	2.800	5.940	6.534	5.643	5.643
16	3.000	6.055	6.661	5.753	5.753
17	3.200	6.166	6.782	5.857	5.857
18	3.400	6.271	6.898	5.957	5.957
19	3.600	6.372	7.009	6.053	6.053
20	3.800	6.469	7.116	6.145	6.145
21	4.000	6.562	7.218	6.234	6.234
22	4.200	6.652	7.317	6.319	6.319
23	4.400	6.739	7.413	6.402	6.402
24	4.600	6.823	7.506	6.482	6.482
25	4.800	6.905	7.595	6.560	6.560
26	5.000	6.984	7.682	6.635	6.635
27	5.200	7.061	7.767	6.708	6.708
28	5.400	7.136	7.849	6.779	6.779
29	5.600	7.209	7.929	6.848	6.848
30	5.800	7.280	8.008	6.916	6.916
31	6.000	7.349	8.084	6.981	6.981
32	6.200	7.416	8.158	7.046	7.046
33	6.400	7.482	8.231	7.108	7.108
34	6.600	7.547	8.302	7.170	7.170
35	6.800	7.610	8.371	7.230	7.230
36	7.000	7.672	8.439	7.288	7.288
37	7.200	7.733	8.506	7.346	7.346
38	7.400	7.792	8.571	7.402	7.402
39	7.600	7.850	8.635	7.458	7.458
40	7.800	7.907	8.698	7.512	7.512
41	8.000	7.964	8.760	7.565	7.565
42	8.200	8.019	8.821	7.618	7.618
43	8.400	8.073	8.880	7.669	7.669
44	8.600	8.126	8.939	7.720	7.720
45	8.800	8.178	8.996	7.769	7.769
46	9.000	8.230	9.053	7.818	7.818
47	9.200	8.281	9.109	7.867	7.867
48	9.400	8.330	9.163	7.914	7.914
49	9.600	8.380	9.217	7.961	7.961
50	9.800	8.428	9.271	8.007	8.007
51	10.000	8.476	9.323	8.052	8.052
52	10.200	8.523	9.375	8.096	8.096
53	10.400	8.569	9.426	8.141	8.141

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL.-HI. ORDER LANG.)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 1.000		INNER LOOP PARAMETER= 650.000		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	.200	3.047	3.351	2.894	2.894
3	.400	3.697	4.067	3.513	3.513
4	.600	4.141	4.555	3.934	3.934
5	.800	4.487	4.936	4.263	4.263
6	1.000	4.776	5.253	4.537	4.537
7	1.200	5.025	5.528	4.774	4.774
8	1.400	5.246	5.771	4.984	4.984
9	1.600	5.445	5.990	5.173	5.173
10	1.800	5.628	6.190	5.346	5.346
11	2.000	5.796	6.375	5.506	5.506
12	2.200	5.952	6.547	5.654	5.654
13	2.400	6.098	6.708	5.793	5.793
14	2.600	6.236	6.860	5.924	5.924
15	2.800	6.367	7.003	6.048	6.048
16	3.000	6.490	7.139	6.166	6.166
17	3.200	6.608	7.269	6.278	6.278
18	3.400	6.721	7.393	6.385	6.385
19	3.600	6.829	7.512	6.488	6.488
20	3.800	6.933	7.627	6.587	6.587
21	4.000	7.033	7.737	6.682	6.682
22	4.200	7.130	7.843	6.773	6.773
23	4.400	7.223	7.945	6.862	6.862
24	4.600	7.313	8.045	6.948	6.948
25	4.800	7.401	8.141	7.031	7.031
26	5.000	7.486	8.234	7.111	7.111
27	5.200	7.568	8.325	7.190	7.190
28	5.400	7.648	8.413	7.266	7.266
29	5.600	7.726	8.499	7.340	7.340
30	5.800	7.802	8.583	7.412	7.412
31	6.000	7.877	8.664	7.483	7.483
32	6.200	7.949	8.744	7.552	7.552
33	6.400	8.020	8.822	7.619	7.619
34	6.600	8.089	8.898	7.685	7.685
35	6.800	8.157	8.973	7.749	7.749
36	7.000	8.223	9.045	7.812	7.812
37	7.200	8.288	9.117	7.874	7.874
38	7.400	8.352	9.187	7.934	7.934
39	7.600	8.414	9.256	7.993	7.993
40	7.800	8.475	9.323	8.052	8.052
41	8.000	8.536	9.389	8.109	8.109
42	8.200	8.595	9.454	8.165	8.165
43	8.400	8.653	9.518	8.220	8.220
44	8.600	8.710	9.581	8.274	8.274
45	8.800	8.766	9.642	8.328	8.328
46	9.000	8.821	9.703	8.380	8.380
47	9.200	8.875	9.763	8.432	8.432
48	9.400	8.929	9.822	8.482	8.482
49	9.600	8.981	9.880	8.532	8.532
50	9.800	9.033	9.937	8.582	8.582
51	10.000	9.084	9.993	8.630	8.630
52	10.200	9.135	10.048	8.678	8.678

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL.-HI. ORDER LANG)

MINIMUM	X= 0.	Y= 0.	MAXIMUM	X= .1080000E+02	Y= .9281779E+01
SCALE/INCH	X= .1000000E+01	Y= .1114259E+01	+GR- TOLERANCE/POINT	X= .5000000E-01	Y= .9281779E-01
.928E+01	+	+	+	+	+
.891E+01	+	+	+	+	+
	+	+	+	+	+
.780E+01	+	+	+	+	+
	+	+	+	+	+
.668E+01	+	+	+	+	+
	+	+	+	+	+
.557E+01	+	+	+	+	+
	+	+	+	+	+
.446E+01	+	+	+	+	+
	+	+	+	+	+
.334E+01	+	+	+	+	+
	+	+	+	+	+
.223E+01	+	+	+	+	+
	+	+	+	+	+
.111E+01	+	+	+	+	+
	+	+	+	+	+
0.	+	+	+	+	+

0. + 2.000 + 4.000 + 6.000 + 8.000 + 100E+02

(BOTH X AND Y COORDINATES ARE PLOTTED ON LINEAR SCALES)

INDEPENDENT VARIABLE-MIX COMPLEXITY

PLOT OF PRODUCTIVITY (MAN-HRS/LOC) VS. MIX COMPLEXITY (PC=200-650)

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW.(APPL.-HI-ORDER LANG)

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL.-HI. ORDER LANG)

MINIMUM SCALE/INCH	X= O. X=	Y= O. Y=	MAXIMUM TOLERANCE/POINT	X=	Y=	MAXIMUM TOLERANCE/POINT	X=	Y=
.968E+00	.968738E-01	.1161622E+00	.1033424E+01	.4784369E-02	.9676312E+00	.9676312E-02	.9676312E+00	.9676312E-02
.929E+00								
.813E+00								
.697E+00								
.581E+00								
.464E+00								
.348E+00								
.232E+00								
.116E+00								
0.								

=====OUTPUT COMPUTATIONS=====

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.		LO. VAL.	
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.128	10.000	.141	.122	.122	.122	.122
3	20.000	.234	20.000	.257	.222	.222	.222	.222
4	30.000	.332	30.000	.365	.316	.316	.316	.316
5	40.000	.426	40.000	.469	.405	.405	.405	.405
6	50.000	.517	50.000	.569	.491	.491	.491	.491
7	60.000	.606	60.000	.666	.575	.575	.575	.575
8	70.000	.692	70.000	.762	.658	.658	.658	.658
9	80.000	.777	80.000	.855	.738	.738	.738	.738
10	90.000	.861	90.000	.947	.818	.818	.818	.818
11	100.000	.943	100.000	1.037	.896	.896	.896	.896
12	110.000	1.024	110.000	1.127	.973	.973	.973	.973
13	120.000	1.104	120.000	1.215	1.049	1.049	1.049	1.049
14	130.000	1.184	130.000	1.302	1.125	1.125	1.125	1.125
15	140.000	1.262	140.000	1.389	1.199	1.199	1.199	1.199
16	150.000	1.340	150.000	1.474	1.273	1.273	1.273	1.273
17	160.000	1.417	160.000	1.559	1.346	1.346	1.346	1.346
18	170.000	1.494	170.000	1.643	1.419	1.419	1.419	1.419
19	180.000	1.570	180.000	1.726	1.491	1.491	1.491	1.491
20	190.000	1.645	190.000	1.809	1.563	1.563	1.563	1.563
21	200.000	1.720	200.000	1.892	1.634	1.634	1.634	1.634
22	210.000	1.794	210.000	1.973	1.704	1.704	1.704	1.704
23	220.000	1.868	220.000	2.054	1.774	1.774	1.774	1.774
24	230.000	1.941	230.000	2.135	1.844	1.844	1.844	1.844
25	240.000	2.014	240.000	2.215	1.913	1.913	1.913	1.913
26	250.000	2.086	250.000	2.295	1.982	1.982	1.982	1.982
27	260.000	2.159	260.000	2.374	2.051	2.051	2.051	2.051
28	270.000	2.230	270.000	2.453	2.119	2.119	2.119	2.119
29	280.000	2.302	280.000	2.532	2.187	2.187	2.187	2.187
30	290.000	2.373	290.000	2.610	2.254	2.254	2.254	2.254
31	300.000	2.444	300.000	2.688	2.321	2.321	2.321	2.321
32	310.000	2.514	310.000	2.765	2.388	2.388	2.388	2.388
33	320.000	2.584	320.000	2.843	2.455	2.455	2.455	2.455
34	330.000	2.654	330.000	2.919	2.521	2.521	2.521	2.521
35	340.000	2.724	340.000	2.996	2.587	2.587	2.587	2.587
36	350.000	2.793	350.000	3.072	2.653	2.653	2.653	2.653
37	360.000	2.862	360.000	3.148	2.719	2.719	2.719	2.719
38	370.000	2.931	370.000	3.224	2.784	2.784	2.784	2.784
39	380.000	2.999	380.000	3.299	2.849	2.849	2.849	2.849
40	390.000	3.067	390.000	3.374	2.914	2.914	2.914	2.914
41	400.000	3.135	400.000	3.449	2.979	2.979	2.979	2.979
42	410.000	3.203	410.000	3.524	3.043	3.043	3.043	3.043
43	420.000	3.271	420.000	3.598	3.107	3.107	3.107	3.107
44	430.000	3.338	430.000	3.672	3.171	3.171	3.171	3.171
45	440.000	3.405	440.000	3.746	3.235	3.235	3.235	3.235
46	450.000	3.472	450.000	3.820	3.299	3.299	3.299	3.299
47	460.000	3.539	460.000	3.893	3.362	3.362	3.362	3.362
48	470.000	3.606	470.000	3.966	3.425	3.425	3.425	3.425
49	480.000	3.672	480.000	4.039	3.489	3.489	3.489	3.489
50	490.000	3.738	490.000	4.112	3.551	3.551	3.551	3.551

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW (APPL.-HI. ORDER LANG)

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.	LO. VAL.
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.		
1	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.156	.171	.148	.171	.148
3	20.000	.284	.312	.270	.312	.270
4	30.000	.403	.443	.383	.443	.383
5	40.000	.517	.569	.491	.569	.491
6	50.000	.628	.690	.596	.690	.596
7	60.000	.735	.809	.698	.809	.698
8	70.000	.840	.924	.798	.924	.798
9	80.000	.943	1.038	.896	1.038	.896
10	90.000	1.045	1.149	.992	1.149	.992
11	100.000	1.144	1.259	1.087	1.259	1.087
12	110.000	1.243	1.367	1.181	1.367	1.181
13	120.000	1.340	1.474	1.273	1.474	1.273
14	130.000	1.437	1.580	1.365	1.580	1.365
15	140.000	1.532	1.685	1.455	1.685	1.455
16	150.000	1.626	1.789	1.545	1.789	1.545
17	160.000	1.720	1.892	1.634	1.892	1.634
18	170.000	1.813	1.994	1.722	1.994	1.722
19	180.000	1.905	2.095	1.809	2.095	1.809
20	190.000	1.996	2.196	1.896	2.196	1.896
21	200.000	2.087	2.296	1.982	2.296	1.982
22	210.000	2.177	2.395	2.068	2.395	2.068
23	220.000	2.267	2.493	2.153	2.493	2.153
24	230.000	2.356	2.591	2.238	2.591	2.238
25	240.000	2.444	2.688	2.322	2.688	2.322
26	250.000	2.532	2.785	2.405	2.785	2.405
27	260.000	2.620	2.882	2.489	2.882	2.489
28	270.000	2.707	2.977	2.571	2.977	2.571
29	280.000	2.793	3.073	2.654	3.073	2.654
30	290.000	2.880	3.168	2.736	3.168	2.736
31	300.000	2.965	3.262	2.817	3.262	2.817
32	310.000	3.051	3.356	2.898	3.356	2.898
33	320.000	3.136	3.450	2.979	3.450	2.979
34	330.000	3.221	3.543	3.060	3.543	3.060
35	340.000	3.305	3.636	3.140	3.636	3.140
36	350.000	3.389	3.728	3.220	3.728	3.220
37	360.000	3.473	3.820	3.299	3.820	3.299
38	370.000	3.557	3.912	3.379	3.912	3.379
39	380.000	3.640	4.004	3.458	4.004	3.458
40	390.000	3.723	4.095	3.536	4.095	3.536
41	400.000	3.805	4.186	3.615	4.186	3.615
42	410.000	3.887	4.276	3.693	4.276	3.693
43	420.000	3.969	4.366	3.771	4.366	3.771
44	430.000	4.051	4.456	3.849	4.456	3.849
45	440.000	4.133	4.546	3.926	4.546	3.926
46	450.000	4.214	4.635	4.003	4.635	4.003
47	460.000	4.295	4.725	4.080	4.725	4.080
48	470.000	4.376	4.813	4.157	4.813	4.157
49	480.000	4.456	4.902	4.234	4.902	4.234
50	490.000	4.537	4.990	4.310	4.990	4.310
51	500.000	4.617	5.079	4.386	5.079	4.386
52	510.000	4.697	5.167	4.462	5.167	4.462
53	520.000	4.777	5.254	4.538	5.254	4.538

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER =		INNER LOOP PARAMETER =		HI. VAL.	LO. VAL.
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.		
1	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.174	.174	.192	.186	.302
3	20.000	.318	.318	.349	.349	.429
4	30.000	.451	.451	.497	.497	.550
5	40.000	.579	.579	.637	.637	.668
6	50.000	.703	.703	.773	.773	.782
7	60.000	.823	.823	.906	.906	.894
8	70.000	.941	.941	1.035	1.035	1.004
9	80.000	1.056	1.056	1.162	1.162	1.111
10	90.000	1.170	1.170	1.287	1.287	1.218
11	100.000	1.282	1.282	1.410	1.410	1.322
12	110.000	1.392	1.392	1.531	1.531	1.426
13	120.000	1.501	1.501	1.651	1.651	1.528
14	130.000	1.609	1.609	1.770	1.770	1.630
15	140.000	1.716	1.716	1.887	1.887	1.730
16	150.000	1.821	1.821	2.003	2.003	1.830
17	160.000	1.926	1.926	2.119	2.119	1.929
18	170.000	2.030	2.030	2.233	2.233	2.026
19	180.000	2.133	2.133	2.346	2.346	2.124
20	190.000	2.235	2.235	2.459	2.459	2.220
21	200.000	2.337	2.337	2.571	2.571	2.316
22	210.000	2.438	2.438	2.682	2.682	2.411
23	220.000	2.538	2.538	2.792	2.792	2.506
24	230.000	2.638	2.638	2.902	2.902	2.600
25	240.000	2.737	2.737	3.011	3.011	2.694
26	250.000	2.836	2.836	3.119	3.119	2.787
27	260.000	2.934	2.934	3.227	3.227	2.880
28	270.000	3.031	3.031	3.334	3.334	2.972
29	280.000	3.128	3.128	3.441	3.441	3.064
30	290.000	3.225	3.225	3.547	3.547	3.155
31	300.000	3.321	3.321	3.653	3.653	3.246
32	310.000	3.417	3.417	3.758	3.758	3.336
33	320.000	3.512	3.512	3.863	3.863	3.427
34	330.000	3.607	3.607	3.968	3.968	3.516
35	340.000	3.701	3.701	4.072	4.072	3.606
36	350.000	3.796	3.796	4.175	4.175	3.695
37	360.000	3.889	3.889	4.278	4.278	3.784
38	370.000	3.983	3.983	4.381	4.381	3.872
39	380.000	4.076	4.076	4.484	4.484	3.960
40	390.000	4.169	4.169	4.586	4.586	4.048
41	400.000	4.261	4.261	4.687	4.687	4.136
42	410.000	4.353	4.353	4.789	4.789	4.223
43	420.000	4.445	4.445	4.890	4.890	4.310
44	430.000	4.537	4.537	4.991	4.991	4.397
45	440.000	4.628	4.628	5.091	5.091	4.483
46	450.000	4.719	4.719	5.191	5.191	4.570
47	460.000	4.810	4.810	5.291	5.291	4.655
48	470.000	4.900	4.900	5.391	5.391	4.741
49	480.000	4.991	4.991	5.490	5.490	4.827
50	490.000	5.081	5.081	5.589	5.589	4.912
51	500.000	5.170	5.170	5.687	5.687	5.000
52	510.000	5.260	5.260	5.786	5.786	5.082
53	520.000	5.349	5.349	5.884	5.884	

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.		LO. VAL.	
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.189	.208	.179	.379	.327	.465	.596
3	20.000	.344	.379	.327	.538	.465	.724	.848
4	30.000	.489	.538	.465	.691	.596	.969	1.087
5	40.000	.628	.691	.596	.838	.724	1.204	1.319
6	50.000	.762	.838	.724	.981	.848	1.433	1.545
7	60.000	.892	.981	.848	1.122	.969	1.656	1.766
8	70.000	1.020	1.122	.969	1.259	1.087	1.875	1.983
9	80.000	1.145	1.259	1.087	1.394	1.204	2.090	2.196
10	90.000	1.268	1.394	1.204	1.528	1.319	2.301	2.406
11	100.000	1.389	1.528	1.319	1.659	1.433	2.510	2.613
12	110.000	1.509	1.659	1.433	1.789	1.545	2.716	2.818
13	120.000	1.627	1.789	1.545	1.918	1.656	2.919	3.020
14	130.000	1.744	1.918	1.656	2.045	1.766	3.121	3.220
15	140.000	1.859	2.045	1.766	2.171	1.875	3.320	3.419
16	150.000	1.974	2.171	1.875	2.296	1.983	3.517	3.616
17	160.000	2.087	2.296	1.983	2.420	2.090	3.713	3.811
18	170.000	2.200	2.420	2.090	2.543	2.196	3.908	4.004
19	180.000	2.312	2.543	2.196	2.665	2.301	4.100	4.196
20	190.000	2.422	2.665	2.301	2.786	2.406	4.292	4.387
21	200.000	2.533	2.786	2.406	2.906	2.510	4.482	4.576
22	210.000	2.642	2.906	2.510	3.026	2.613	4.671	4.765
23	220.000	2.751	3.026	2.613	3.145	2.716	4.858	5.045
24	230.000	2.859	3.145	2.716	3.263	2.818	5.138	5.230
25	240.000	2.966	3.263	2.818	3.380	2.919	5.323	5.415
26	250.000	3.073	3.380	2.919	3.497	3.020	5.507	5.696
27	260.000	3.179	3.497	3.020	3.613	3.121	5.797	6.086
28	270.000	3.285	3.613	3.121	3.729	3.220	6.086	6.376
29	280.000	3.390	3.729	3.220	3.844	3.320	6.376	6.666
30	290.000	3.495	3.844	3.320	3.959	3.419	6.666	6.956
31	300.000	3.599	3.959	3.419	4.073	3.517	6.956	7.246
32	310.000	3.703	4.073	3.517	4.186	3.616	7.246	7.536
33	320.000	3.806	4.186	3.616	4.300	3.713	7.536	7.826
34	330.000	3.909	4.300	3.713	4.412	3.811	7.826	8.116
35	340.000	4.011	4.412	3.811	4.525	3.908	8.116	8.406
36	350.000	4.113	4.525	3.908	4.636	4.004	8.406	8.696
37	360.000	4.215	4.636	4.004	4.748	4.100	8.696	8.986
38	370.000	4.316	4.748	4.100	4.859	4.196	8.986	9.276
39	380.000	4.417	4.859	4.196	4.969	4.292	9.276	9.566
40	390.000	4.518	4.969	4.292	5.080	4.387	9.566	9.856
41	400.000	4.618	5.080	4.387	5.189	4.482	9.856	10.146
42	410.000	4.718	5.189	4.482	5.299	4.576	10.146	10.436
43	420.000	4.817	5.299	4.576	5.408	4.671	10.436	10.726
44	430.000	4.916	5.408	4.671	5.517	4.765	10.726	11.016
45	440.000	5.015	5.517	4.765	5.625	4.858	11.016	11.306
46	450.000	5.114	5.625	4.858	5.734	4.952	11.306	11.596
47	460.000	5.212	5.734	4.952	5.842	5.045	11.596	11.886
48	470.000	5.310	5.842	5.045	5.949	5.138	11.886	12.176
49	480.000	5.408	5.949	5.138	6.056	5.230	12.176	12.466
50	490.000	5.506	6.056	5.230	6.163	5.323	12.466	12.756
51	500.000	5.603	6.163	5.323	6.270	5.415	12.756	13.046
52	510.000	5.700	6.270	5.415	6.376	5.507	13.046	13.336
53	520.000	5.797	6.376	5.507	6.482	5.599	13.336	13.626

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW.(APPL.-HI.ORDER LANG)- -----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.		LO. VAL.	
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.	0.000	5.000	0.000	5.000
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.201	10.000	.201	.221	.221	.191	.191
3	20.000	.366	20.000	.366	.403	.403	.348	.348
4	30.000	.521	30.000	.521	.573	.573	.495	.495
5	40.000	.668	40.000	.668	.735	.735	.635	.635
6	50.000	.811	50.000	.811	.892	.892	.770	.770
7	60.000	.949	60.000	.949	1.044	1.044	.902	.902
8	70.000	1.085	70.000	1.085	1.194	1.194	1.031	1.031
9	80.000	1.218	80.000	1.218	1.340	1.340	1.157	1.157
10	90.000	1.349	90.000	1.349	1.484	1.484	1.282	1.282
11	100.000	1.478	100.000	1.478	1.626	1.626	1.404	1.404
12	110.000	1.606	110.000	1.606	1.766	1.766	1.525	1.525
13	120.000	1.731	120.000	1.731	1.904	1.904	1.645	1.645
14	130.000	1.856	130.000	1.856	2.041	2.041	1.763	1.763
15	140.000	1.979	140.000	1.979	2.177	2.177	1.880	1.880
16	150.000	2.101	150.000	2.101	2.311	2.311	1.996	1.996
17	160.000	2.221	160.000	2.221	2.444	2.444	2.110	2.110
18	170.000	2.341	170.000	2.341	2.575	2.575	2.224	2.224
19	180.000	2.460	180.000	2.460	2.706	2.706	2.337	2.337
20	190.000	2.578	190.000	2.578	2.836	2.836	2.449	2.449
21	200.000	2.695	200.000	2.695	2.965	2.965	2.561	2.561
22	210.000	2.812	210.000	2.812	3.093	3.093	2.671	2.671
23	220.000	2.927	220.000	2.927	3.220	3.220	2.781	2.781
24	230.000	3.042	230.000	3.042	3.347	3.347	2.890	2.890
25	240.000	3.157	240.000	3.157	3.472	3.472	2.999	2.999
26	250.000	3.270	250.000	3.270	3.597	3.597	3.107	3.107
27	260.000	3.384	260.000	3.384	3.722	3.722	3.214	3.214
28	270.000	3.496	270.000	3.496	3.846	3.846	3.321	3.321
29	280.000	3.608	280.000	3.608	3.969	3.969	3.428	3.428
30	290.000	3.719	290.000	3.719	4.091	4.091	3.533	3.533
31	300.000	3.830	300.000	3.830	4.213	4.213	3.639	3.639
32	310.000	3.941	310.000	3.941	4.335	4.335	3.744	3.744
33	320.000	4.051	320.000	4.051	4.456	4.456	3.848	3.848
34	330.000	4.160	330.000	4.160	4.576	4.576	3.952	3.952
35	340.000	4.269	340.000	4.269	4.696	4.696	4.056	4.056
36	350.000	4.378	350.000	4.378	4.815	4.815	4.159	4.159
37	360.000	4.486	360.000	4.486	4.934	4.934	4.262	4.262
38	370.000	4.594	370.000	4.594	5.053	5.053	4.364	4.364
39	380.000	4.701	380.000	4.701	5.171	5.171	4.466	4.466
40	390.000	4.808	390.000	4.808	5.289	5.289	4.568	4.568
41	400.000	4.915	400.000	4.915	5.406	5.406	4.669	4.669
42	410.000	5.021	410.000	5.021	5.523	5.523	4.770	4.770
43	420.000	5.127	420.000	5.127	5.640	5.640	4.871	4.871
44	430.000	5.233	430.000	5.233	5.756	5.756	4.971	4.971
45	440.000	5.338	440.000	5.338	5.872	5.872	5.071	5.071
46	450.000	5.443	450.000	5.443	5.987	5.987	5.171	5.171
47	460.000	5.548	460.000	5.548	6.102	6.102	5.270	5.270
48	470.000	5.652	470.000	5.652	6.217	6.217	5.369	5.369
49	480.000	5.756	480.000	5.756	6.332	6.332	5.468	5.468
50	490.000	5.860	490.000	5.860	6.446	6.446	5.567	5.567
51	500.000	5.963	500.000	5.963	6.560	6.560	5.665	5.665
52	510.000	6.066	510.000	6.066	6.673	6.673	5.763	5.763
53	520.000	6.169	520.000	6.169	6.786	6.786	5.861	5.861

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PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER- AVIONICS SW. (APPL. -HI. ORDER LANG)

HIGH PERTURBATION VALUE = .1000
 LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	10.000	.211	.233	.201	.366
3	20.000	.386	.424	.366	.521
4	30.000	.548	.603	.521	.668
5	40.000	.703	.773	.668	.810
6	50.000	.853	.938	.810	.949
7	60.000	.999	1.099	.949	1.085
8	70.000	1.142	1.256	1.085	1.218
9	80.000	1.282	1.410	1.218	1.349
10	90.000	1.420	1.562	1.349	1.478
11	100.000	1.555	1.711	1.478	1.605
12	110.000	1.689	1.858	1.605	1.731
13	120.000	1.822	2.004	1.731	1.855
14	130.000	1.953	2.148	1.855	1.978
15	140.000	2.082	2.290	1.978	2.100
16	150.000	2.210	2.431	2.100	2.221
17	160.000	2.337	2.571	2.221	2.340
18	170.000	2.464	2.710	2.340	2.459
19	180.000	2.589	2.848	2.459	2.577
20	190.000	2.713	2.984	2.577	2.694
21	200.000	2.836	3.120	2.694	2.811
22	210.000	2.959	3.255	2.811	2.926
23	220.000	3.080	3.388	2.926	3.041
24	230.000	3.201	3.522	3.041	3.156
25	240.000	3.322	3.654	3.156	3.269
26	250.000	3.441	3.785	3.269	3.382
27	260.000	3.560	3.916	3.382	3.495
28	270.000	3.679	4.046	3.495	3.607
29	280.000	3.796	4.176	3.607	3.718
30	290.000	3.914	4.305	3.718	3.829
31	300.000	4.030	4.433	3.829	3.939
32	310.000	4.146	4.561	3.939	4.049
33	320.000	4.262	4.688	4.049	4.158
34	330.000	4.377	4.815	4.158	4.267
35	340.000	4.492	4.941	4.267	4.376
36	350.000	4.606	5.067	4.376	4.484
37	360.000	4.720	5.192	4.484	4.592
38	370.000	4.834	5.317	4.592	4.699
39	380.000	4.947	5.441	4.699	4.806
40	390.000	5.059	5.565	4.806	4.913
41	400.000	5.171	5.689	4.913	5.019
42	410.000	5.283	5.812	5.019	5.125
43	420.000	5.395	5.934	5.125	5.231
44	430.000	5.506	6.057	5.231	5.336
45	440.000	5.617	6.178	5.336	5.441
46	450.000	5.727	6.300	5.441	5.545
47	460.000	5.837	6.421	5.545	5.650
48	470.000	5.947	6.542	5.650	5.754
49	480.000	6.057	6.662	5.754	5.858
50	490.000	6.166	6.782	5.858	5.961
51	500.000	6.275	6.902	5.961	6.064
52	510.000	6.383	7.022	6.064	6.167
53	520.000	6.492	7.141	6.167	

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER- AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER =		1.000	
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000
2	10.000	.221	.243	.210
3	20.000	.403	.443	.382
4	30.000	.572	.629	.543
5	40.000	.734	.807	.697
6	50.000	.891	.980	.846
7	60.000	1.043	1.147	.991
8	70.000	1.192	1.311	1.132
9	80.000	1.338	1.472	1.271
10	90.000	1.482	1.630	1.408
11	100.000	1.624	1.786	1.543
12	110.000	1.764	1.940	1.676
13	120.000	1.902	2.092	1.807
14	130.000	2.038	2.242	1.937
15	140.000	2.174	2.391	2.065
16	150.000	2.308	2.538	2.192
17	160.000	2.440	2.684	2.318
18	170.000	2.572	2.829	2.443
19	180.000	2.703	2.973	2.567
20	190.000	2.832	3.115	2.691
21	200.000	2.961	3.257	2.813
22	210.000	3.089	3.398	2.934
23	220.000	3.216	3.537	3.055
24	230.000	3.342	3.676	3.175
25	240.000	3.468	3.815	3.294
26	250.000	3.593	3.952	3.413
27	260.000	3.717	4.089	3.531
28	270.000	3.840	4.224	3.648
29	280.000	3.963	4.360	3.765
30	290.000	4.086	4.494	3.881
31	300.000	4.208	4.628	3.997
32	310.000	4.329	4.762	4.112
33	320.000	4.450	4.895	4.227
34	330.000	4.570	5.027	4.341
35	340.000	4.690	5.159	4.455
36	350.000	4.809	5.290	4.569
37	360.000	4.928	5.421	4.681
38	370.000	5.046	5.551	4.794
39	380.000	5.164	5.681	4.906
40	390.000	5.282	5.810	5.018
41	400.000	5.399	5.939	5.129
42	410.000	5.516	6.067	5.240
43	420.000	5.632	6.195	5.351
44	430.000	5.748	6.323	5.461
45	440.000	5.864	6.450	5.571
46	450.000	5.979	6.577	5.680
47	460.000	6.094	6.704	5.789
48	470.000	6.209	6.830	5.898
49	480.000	6.323	6.955	6.007
50	490.000	6.437	7.081	6.115
51	500.000	6.551	7.206	6.223
52	510.000	6.664	7.331	6.331
53	520.000	6.777	7.455	6.438

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.		LO. VAL.	
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	HI. VAL.	LO. VAL.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.229	.252	.218	.252	.218	.252	.218
3	20.000	.418	.460	.397	.460	.397	.460	.397
4	30.000	.594	.653	.564	.653	.564	.653	.564
5	40.000	.762	.838	.724	.838	.724	.838	.724
6	50.000	.924	1.017	.878	1.017	.878	1.017	.878
7	60.000	1.083	1.191	1.029	1.191	1.029	1.191	1.029
8	70.000	1.237	1.361	1.176	1.361	1.176	1.361	1.176
9	80.000	1.389	1.528	1.320	1.528	1.320	1.528	1.320
10	90.000	1.538	1.692	1.462	1.692	1.462	1.692	1.462
11	100.000	1.686	1.854	1.601	1.854	1.601	1.854	1.601
12	110.000	1.831	2.014	1.739	2.014	1.739	2.014	1.739
13	120.000	1.974	2.171	1.875	2.171	1.875	2.171	1.875
14	130.000	2.116	2.327	2.010	2.327	2.010	2.327	2.010
15	140.000	2.256	2.482	2.143	2.482	2.143	2.482	2.143
16	150.000	2.395	2.635	2.275	2.635	2.275	2.635	2.275
17	160.000	2.533	2.786	2.406	2.786	2.406	2.786	2.406
18	170.000	2.670	2.937	2.536	2.937	2.536	2.937	2.536
19	180.000	2.805	3.086	2.665	3.086	2.665	3.086	2.665
20	190.000	2.940	3.234	2.793	3.234	2.793	3.234	2.793
21	200.000	3.073	3.381	2.920	3.381	2.920	3.381	2.920
22	210.000	3.206	3.527	3.046	3.527	3.046	3.527	3.046
23	220.000	3.338	3.672	3.171	3.672	3.171	3.672	3.171
24	230.000	3.469	3.816	3.296	3.816	3.296	3.816	3.296
25	240.000	3.600	3.959	3.420	3.959	3.420	3.959	3.420
26	250.000	3.729	4.102	3.543	4.102	3.543	4.102	3.543
27	260.000	3.858	4.244	3.665	4.244	3.665	4.244	3.665
28	270.000	3.986	4.385	3.787	4.385	3.787	4.385	3.787
29	280.000	4.114	4.525	3.908	4.525	3.908	4.525	3.908
30	290.000	4.241	4.665	4.029	4.665	4.029	4.665	4.029
31	300.000	4.367	4.804	4.149	4.804	4.149	4.804	4.149
32	310.000	4.493	4.943	4.269	4.943	4.269	4.943	4.269
33	320.000	4.619	5.081	4.388	5.081	4.388	5.081	4.388
34	330.000	4.744	5.218	4.506	5.218	4.506	5.218	4.506
35	340.000	4.868	5.355	4.624	5.355	4.624	5.355	4.624
36	350.000	4.992	5.491	4.742	5.491	4.742	5.491	4.742
37	360.000	5.115	5.627	4.859	5.627	4.859	5.627	4.859
38	370.000	5.238	5.762	4.976	5.762	4.976	5.762	4.976
39	380.000	5.360	5.896	5.092	5.896	5.092	5.896	5.092
40	390.000	5.482	6.031	5.208	6.031	5.208	6.031	5.208
41	400.000	5.604	6.164	5.324	6.164	5.324	6.164	5.324
42	410.000	5.725	6.298	5.439	6.298	5.439	6.298	5.439
43	420.000	5.846	6.431	5.554	6.431	5.554	6.431	5.554
44	430.000	5.967	6.563	5.668	6.563	5.668	6.563	5.668
45	440.000	6.087	6.695	5.782	6.695	5.782	6.695	5.782
46	450.000	6.206	6.827	5.896	6.827	5.896	6.827	5.896
47	460.000	6.326	6.958	6.009	6.958	6.009	6.958	6.009
48	470.000	6.445	7.089	6.122	7.089	6.122	7.089	6.122
49	480.000	6.563	7.220	6.235	7.220	6.235	7.220	6.235
50	490.000	6.682	7.350	6.348	7.350	6.348	7.350	6.348
51	500.000	6.800	7.480	6.460	7.480	6.460	7.480	6.460
52	510.000	6.917	7.609	6.571	7.609	6.571	7.609	6.571
53	520.000	7.035	7.738	6.683	7.738	6.683	7.738	6.683

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

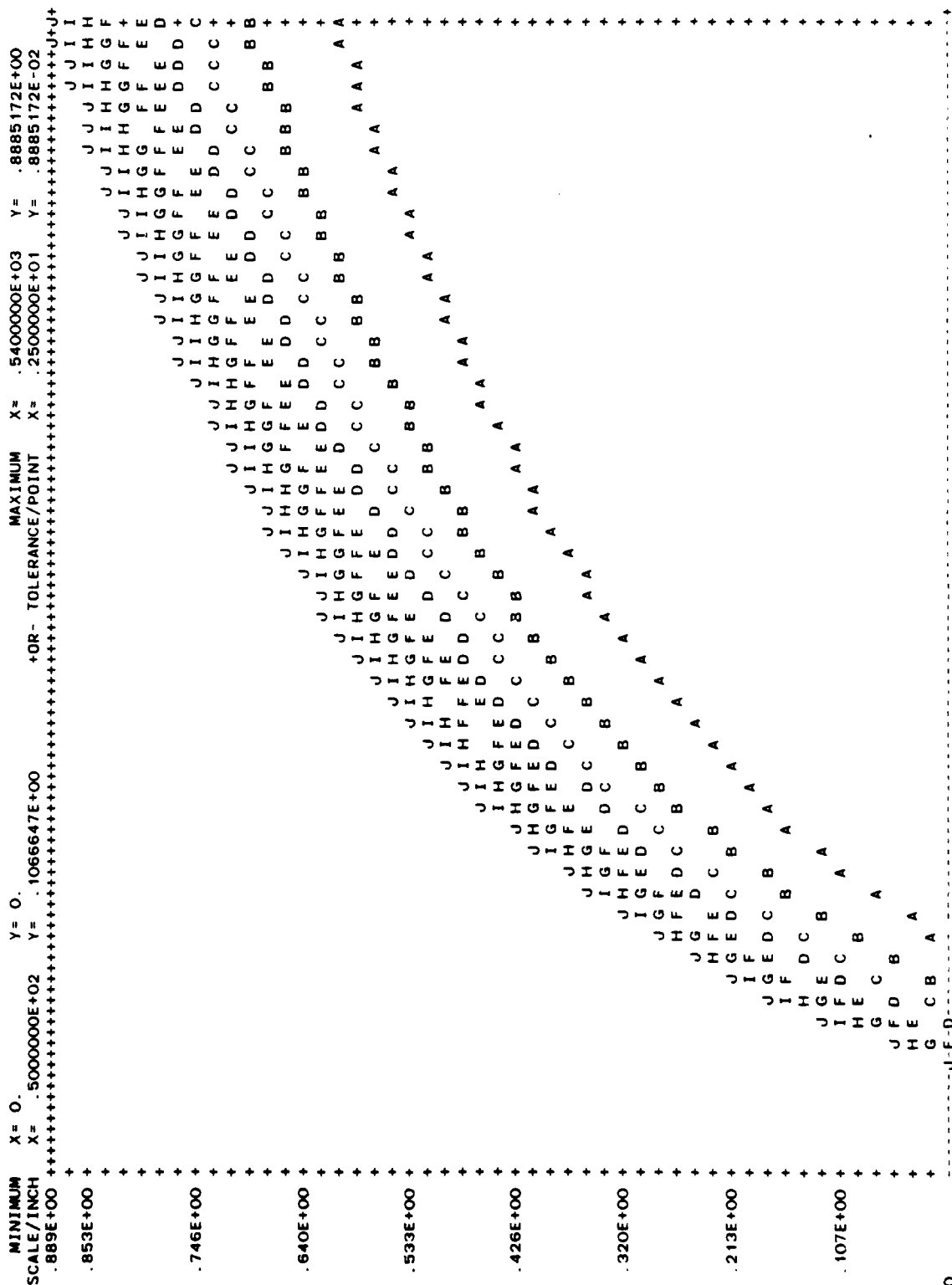
NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.	LO. VAL.	
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.		HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.237	.260	.225	.410	.410	.410
3	20.000	.432	.475	.475	.583	.583	.583
4	30.000	.614	.675	.675	.748	.748	.748
5	40.000	.787	.866	.866	.908	.908	.908
6	50.000	.955	1.051	1.051	1.063	1.063	1.063
7	60.000	1.119	1.231	1.231	1.215	1.215	1.215
8	70.000	1.279	1.407	1.407	1.364	1.364	1.364
9	80.000	1.436	1.579	1.579	1.510	1.510	1.510
10	90.000	1.590	1.749	1.749	1.655	1.655	1.655
11	100.000	1.742	1.916	1.916	1.797	1.797	1.797
12	110.000	1.892	2.081	2.081	1.938	1.938	1.938
13	120.000	2.040	2.244	2.244	2.077	2.077	2.077
14	130.000	2.187	2.405	2.405	2.215	2.215	2.215
15	140.000	2.332	2.565	2.565	2.352	2.352	2.352
16	150.000	2.475	2.723	2.723	2.487	2.487	2.487
17	160.000	2.618	2.880	2.880	2.621	2.621	2.621
18	170.000	2.759	3.035	3.035	2.754	2.754	2.754
19	180.000	2.899	3.189	3.189	2.886	2.886	2.886
20	190.000	3.038	3.342	3.342	3.017	3.017	3.017
21	200.000	3.176	3.494	3.494	3.148	3.148	3.148
22	210.000	3.313	3.645	3.645	3.277	3.277	3.277
23	220.000	3.450	3.795	3.795	3.406	3.406	3.406
24	230.000	3.585	3.944	3.944	3.534	3.534	3.534
25	240.000	3.720	4.092	4.092	3.661	3.661	3.661
26	250.000	3.854	4.239	4.239	3.788	3.788	3.788
27	260.000	3.987	4.386	4.386	3.914	3.914	3.914
28	270.000	4.120	4.532	4.532	4.039	4.039	4.039
29	280.000	4.252	4.677	4.677	4.164	4.164	4.164
30	290.000	4.383	4.821	4.821	4.288	4.288	4.288
31	300.000	4.514	4.965	4.965	4.411	4.411	4.411
32	310.000	4.644	5.108	5.108	4.534	4.534	4.534
33	320.000	4.773	5.250	5.250	4.657	4.657	4.657
34	330.000	4.902	5.392	5.392	4.779	4.779	4.779
35	340.000	5.031	5.534	5.534	4.901	4.901	4.901
36	350.000	5.159	5.674	5.674	5.022	5.022	5.022
37	360.000	5.286	5.815	5.815	5.142	5.142	5.142
38	370.000	5.413	5.954	5.954	5.263	5.263	5.263
39	380.000	5.540	6.094	6.094	5.382	5.382	5.382
40	390.000	5.666	6.232	6.232	5.502	5.502	5.502
41	400.000	5.791	6.371	6.371	5.621	5.621	5.621
42	410.000	5.917	6.508	6.508	5.740	5.740	5.740
43	420.000	6.042	6.646	6.646	5.858	5.858	5.858
44	430.000	6.166	6.783	6.783	5.976	5.976	5.976
45	440.000	6.290	6.919	6.919	6.093	6.093	6.093
46	450.000	6.414	7.055	7.055	6.210	6.210	6.210
47	460.000	6.537	7.191	7.191	6.327	6.327	6.327
48	470.000	6.660	7.326	7.326	6.444	6.444	6.444
49	480.000	6.783	7.461	7.461	6.560	6.560	6.560
50	490.000	6.905	7.596	7.596	6.676	6.676	6.676
51	500.000	7.027	7.730	7.730	6.791	6.791	6.791
52	510.000	7.149	7.864	7.864	6.906	6.906	6.906
53	520.000	7.270	7.997	7.997			

PARAMETRIC COST ESTIMATES-DR. ARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)

HIGH PERTURBATION VALUE = 1000
LOW PERTURBATION VALUE = 0500

NO. TERMS	OUTER LOOP PARAMETER=		INNER LOOP PARAMETER=		HI. VAL.	LO. VAL.
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.		
1	0.000	0.000	0.000	0.000	0.000	0.000
2	10.000	.244	.268	.232	.268	.232
3	20.000	.445	.489	.422	.489	.422
4	30.000	.632	.695	.600	.695	.600
5	40.000	.811	.892	.770	.892	.770
6	50.000	.984	1.082	.935	1.082	.935
7	60.000	1.152	1.267	1.095	1.267	1.095
8	70.000	1.317	1.449	1.251	1.449	1.251
9	80.000	1.479	1.626	1.405	1.626	1.405
10	90.000	1.637	1.801	1.556	1.801	1.556
11	100.000	1.794	1.973	1.704	1.973	1.704
12	110.000	1.948	2.143	1.851	2.143	1.851
13	120.000	2.101	2.311	1.996	2.311	1.996
14	130.000	2.252	2.477	2.139	2.477	2.139
15	140.000	2.401	2.641	2.281	2.641	2.281
16	150.000	2.549	2.804	2.422	2.804	2.422
17	160.000	2.696	2.965	2.561	2.965	2.561
18	170.000	2.841	3.125	2.699	3.125	2.699
19	180.000	2.986	3.284	2.836	3.284	2.836
20	190.000	3.129	3.442	2.972	3.442	2.972
21	200.000	3.271	3.598	3.108	3.598	3.108
22	210.000	3.412	3.754	3.242	3.754	3.242
23	220.000	3.553	3.908	3.375	3.908	3.375
24	230.000	3.692	4.061	3.508	4.061	3.508
25	240.000	3.831	4.214	3.639	4.214	3.639
26	250.000	3.969	4.366	3.770	4.366	3.770
27	260.000	4.106	4.517	3.901	4.517	3.901
28	270.000	4.243	4.667	4.031	4.667	4.031
29	280.000	4.379	4.816	4.160	4.816	4.160
30	290.000	4.514	4.965	4.288	4.965	4.288
31	300.000	4.648	5.113	4.416	5.113	4.416
32	310.000	4.782	5.260	4.543	5.260	4.543
33	320.000	4.916	5.407	4.670	5.407	4.670
34	330.000	5.049	5.553	4.796	5.553	4.796
35	340.000	5.181	5.699	4.922	5.699	4.922
36	350.000	5.313	5.844	5.047	5.844	5.047
37	360.000	5.444	5.988	5.172	5.988	5.172
38	370.000	5.575	6.132	5.296	6.132	5.296
39	380.000	5.705	6.276	5.420	6.276	5.420
40	390.000	5.835	6.418	5.543	6.418	5.543
41	400.000	5.964	6.561	5.666	6.561	5.666
42	410.000	6.093	6.703	5.789	6.703	5.789
43	420.000	6.222	6.844	5.911	6.844	5.911
44	430.000	6.350	6.985	6.033	6.985	6.033
45	440.000	6.478	7.126	6.154	7.126	6.154
46	450.000	6.605	7.266	6.275	7.266	6.275
47	460.000	6.732	7.406	6.396	7.406	6.396
48	470.000	6.859	7.545	6.516	7.545	6.516
49	480.000	6.985	7.684	6.636	7.684	6.636
50	490.000	7.111	7.822	6.756	7.822	6.756
51	500.000	7.237	7.961	6.875	7.961	6.875
52	510.000	7.362	8.098	6.994	8.098	6.994
53	520.000	7.487	8.236	7.113	8.236	7.113

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)



-----OUTPUT COMPUTATIONS-----

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW.(APPL.-HI.ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500			INNER LOOP PARAMETER= 200.000			LO. VAL.		
	IND. VAR.	DEP. VAR.	HI. VAL.	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	LO. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	.001	.105	.115	.001	.105	.115	.099	.099	.099
3	.001	.209	.230	.001	.209	.230	.199	.199	.199
4	.002	.314	.345	.002	.314	.345	.298	.298	.298
5	.003	.419	.461	.003	.419	.461	.398	.398	.398
6	.003	.523	.576	.003	.523	.576	.497	.497	.497
7	.004	.628	.691	.004	.628	.691	.597	.597	.597
8	.005	.733	.806	.005	.733	.806	.696	.696	.696
9	.006	.838	.921	.006	.838	.921	.796	.796	.796
10	.006	.942	1.036	.006	.942	1.036	.895	.895	.895
11	.007	1.047	1.152	.007	1.047	1.152	.995	.995	.995
12	.008	1.152	1.267	.008	1.152	1.267	1.094	1.094	1.094
13	.008	1.256	1.382	.008	1.256	1.382	1.193	1.193	1.193
14	.009	1.361	1.497	.009	1.361	1.497	1.293	1.293	1.293
15	.010	1.466	1.612	.010	1.466	1.612	1.392	1.392	1.392
16	.010	1.570	1.727	.010	1.570	1.727	1.492	1.492	1.492
17	.011	1.675	1.843	.011	1.675	1.843	1.591	1.591	1.591
18	.012	1.780	1.958	.012	1.780	1.958	1.691	1.691	1.691
19	.013	1.884	2.073	.013	1.884	2.073	1.790	1.790	1.790
20	.013	1.989	2.188	.013	1.989	2.188	1.890	1.890	1.890
21	.014	2.094	2.303	.014	2.094	2.303	1.989	1.989	1.989
22	.015	2.198	2.418	.015	2.198	2.418	2.089	2.089	2.089
23	.015	2.303	2.533	.015	2.303	2.533	2.188	2.188	2.188
24	.016	2.408	2.649	.016	2.408	2.649	2.287	2.287	2.287
25	.017	2.513	2.764	.017	2.513	2.764	2.387	2.387	2.387
26	.017	2.617	2.879	.017	2.617	2.879	2.486	2.486	2.486
27	.018	2.722	2.994	.018	2.722	2.994	2.586	2.586	2.586
28	.019	2.827	3.109	.019	2.827	3.109	2.685	2.685	2.685
29	.020	2.931	3.224	.020	2.931	3.224	2.785	2.785	2.785
30	.020	3.036	3.340	.020	3.036	3.340	2.884	2.884	2.884
31	.021	3.141	3.455	.021	3.141	3.455	2.984	2.984	2.984
32	.022	3.245	3.570	.022	3.245	3.570	3.083	3.083	3.083
33	.022	3.350	3.685	.022	3.350	3.685	3.183	3.183	3.183
34	.023	3.455	3.800	.023	3.455	3.800	3.282	3.282	3.282
35	.024	3.559	3.915	.024	3.559	3.915	3.381	3.381	3.381
36	.024	3.664	4.031	.024	3.664	4.031	3.481	3.481	3.481
37	.025	3.769	4.146	.025	3.769	4.146	3.580	3.580	3.580
38	.026	3.874	4.261	.026	3.874	4.261	3.680	3.680	3.680
39	.026	3.978	4.376	.026	3.978	4.376	3.779	3.779	3.779
40	.027	4.083	4.491	.027	4.083	4.491	3.879	3.879	3.879
41	.028	4.188	4.606	.028	4.188	4.606	3.978	3.978	3.978
42	.029	4.292	4.721	.029	4.292	4.721	4.078	4.078	4.078
43	.029	4.397	4.837	.029	4.397	4.837	4.177	4.177	4.177
44	.030	4.502	4.952	.030	4.502	4.952	4.277	4.277	4.277
45	.031	4.606	5.067	.031	4.606	5.067	4.376	4.376	4.376
46	.031	4.711	5.182	.031	4.711	5.182	4.475	4.475	4.475
47	.032	4.816	5.297	.032	4.816	5.297	4.575	4.575	4.575
48	.033	4.920	5.412	.033	4.920	5.412	4.674	4.674	4.674
49	.033	5.025	5.528	.033	5.025	5.528	4.774	4.774	4.774
50	.033	5.130	5.643	.033	5.130	5.643	4.873	4.873	4.873

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500		INNER LOOP PARAMETER= 250.000		LO. VAL.	
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000	0.000	0.000
2	.001	.127	.140	.121	.241	.121
3	.001	.254	.279	.241	.362	.241
4	.002	.381	.419	.362	.483	.362
5	.003	.508	.559	.483	.603	.483
6	.003	.635	.699	.603	.724	.603
7	.004	.762	.838	.724	.845	.724
8	.005	.889	.978	.845	.965	.845
9	.006	1.016	1.118	.965	1.086	.965
10	.006	1.143	1.258	1.086	1.207	1.086
11	.007	1.270	1.397	1.207	1.327	1.207
12	.008	1.397	1.537	1.327	1.448	1.327
13	.008	1.524	1.677	1.448	1.569	1.448
14	.009	1.651	1.816	1.569	1.689	1.569
15	.010	1.778	1.956	1.689	1.810	1.689
16	.010	1.905	2.096	1.810	1.931	1.810
17	.011	2.032	2.236	1.931	2.051	1.931
18	.012	2.159	2.375	2.051	2.172	2.051
19	.013	2.286	2.515	2.172	2.293	2.172
20	.013	2.413	2.655	2.293	2.413	2.293
21	.014	2.540	2.795	2.413	2.534	2.413
22	.015	2.668	2.934	2.534	2.655	2.534
23	.015	2.795	3.074	2.655	2.775	2.655
24	.016	2.922	3.214	2.775	2.896	2.775
25	.017	3.049	3.353	2.896	3.017	2.896
26	.017	3.176	3.493	3.017	3.137	3.017
27	.018	3.303	3.633	3.137	3.258	3.137
28	.019	3.430	3.773	3.258	3.379	3.258
29	.020	3.557	3.912	3.379	3.500	3.379
30	.020	3.684	4.052	3.500	3.620	3.500
31	.021	3.811	4.192	3.620	3.741	3.620
32	.022	3.938	4.332	3.741	3.862	3.741
33	.022	4.065	4.471	3.862	3.982	3.862
34	.023	4.192	4.611	3.982	4.103	3.982
35	.024	4.319	4.751	4.103	4.224	4.103
36	.024	4.446	4.890	4.224	4.344	4.224
37	.025	4.573	5.030	4.344	4.465	4.344
38	.026	4.700	5.170	4.465	4.586	4.465
39	.026	4.827	5.310	4.586	4.706	4.586
40	.027	4.954	5.449	4.706	4.827	4.706
41	.028	5.081	5.589	4.827	4.948	4.827
42	.029	5.208	5.729	4.948	5.068	4.948
43	.029	5.335	5.869	5.068	5.189	5.068
44	.030	5.462	6.008	5.189	5.310	5.189
45	.031	5.589	6.148	5.310	5.430	5.310
46	.031	5.716	6.288	5.430	5.551	5.430
47	.032	5.843	6.427	5.551	5.672	5.551
48	.033	5.970	6.567	5.672	5.792	5.672
49	.033	6.097	6.707	5.792	5.913	5.792
50	.034	6.224	6.847	5.913	6.034	5.913
51	.035	6.351	6.986	6.034	6.154	6.034
52	.036	6.478	7.126	6.154	6.275	6.154
53	.036	6.605	7.266	6.275		

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL.-HI. ORDER LANG.)-----

		HIGH PERTURBATION VALUE=		.1000	
		LOW PERTURBATION VALUE =		.0500	
NO. TERMS		OUTER LOOP PARAMETER=		4.500	
		INNER LOOP PARAMETER=		300.000	
		IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.
1		0.000	0.000	0.000	0.000
2		.001	.149	.164	.141
3		.001	.298	.327	.283
4		.002	.446	.491	.424
5		.003	.595	.655	.565
6		.003	.744	.818	.707
7		.004	.893	.982	.848
8		.005	1.041	1.146	.989
9		.006	1.190	1.309	1.131
10		.006	1.339	1.473	1.272
11		.007	1.488	1.636	1.413
12		.008	1.636	1.800	1.555
13		.008	1.785	1.964	1.696
14		.009	1.934	2.127	1.837
15		.010	2.083	2.291	1.979
16		.010	2.232	2.455	2.120
17		.011	2.380	2.618	2.261
18		.012	2.529	2.782	2.403
19		.013	2.678	2.946	2.544
20		.013	2.827	3.109	2.685
21		.014	2.975	3.273	2.827
22		.015	3.124	3.437	2.968
23		.015	3.273	3.600	3.109
24		.016	3.422	3.764	3.251
25		.017	3.570	3.927	3.392
26		.017	3.719	4.091	3.533
27		.018	3.868	4.255	3.675
28		.019	4.017	4.418	3.816
29		.020	4.165	4.582	3.957
30		.020	4.314	4.746	4.099
31		.021	4.463	4.909	4.240
32		.022	4.612	5.073	4.381
33		.022	4.761	5.237	4.523
34		.023	4.909	5.400	4.664
35		.024	5.058	5.564	4.805
36		.024	5.207	5.728	4.947
37		.025	5.356	5.891	5.088
38		.026	5.504	6.055	5.229
39		.026	5.653	6.218	5.370
40		.027	5.802	6.382	5.512
41		.028	5.951	6.546	5.653
42		.029	6.099	6.709	5.794
43		.029	6.248	6.873	5.936
44		.030	6.397	7.037	6.077
45		.031	6.546	7.200	6.218
46		.031	6.695	7.364	6.360
47		.032	6.843	7.528	6.501
48		.033	6.992	7.691	6.642
49		.033	7.141	7.855	6.784
50		.034	7.290	8.019	6.925
51		.035	7.438	8.182	7.066
52		.036	7.587	8.346	7.208
53		.036	7.736	8.509	7.349

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER = 4.500		INNER LOOP PARAMETER = 350.000		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	.001	.170	.187	.162	.162
3	.001	.340	.374	.323	.323
4	.002	.510	.561	.485	.485
5	.003	.680	.748	.646	.646
6	.003	.850	.935	.808	.808
7	.004	1.020	1.122	.969	.969
8	.005	1.190	1.309	1.131	1.131
9	.006	1.360	1.496	1.292	1.292
10	.006	1.530	1.683	1.454	1.454
11	.007	1.700	1.870	1.615	1.615
12	.008	1.870	2.057	1.777	1.777
13	.008	2.040	2.244	1.938	1.938
14	.009	2.210	2.431	2.100	2.100
15	.010	2.380	2.618	2.261	2.261
16	.010	2.550	2.805	2.423	2.423
17	.011	2.720	2.993	2.584	2.584
18	.012	2.890	3.180	2.746	2.746
19	.013	3.061	3.367	2.908	2.908
20	.013	3.231	3.554	3.069	3.069
21	.014	3.401	3.741	3.231	3.231
22	.015	3.571	3.928	3.392	3.392
23	.015	3.741	4.115	3.554	3.554
24	.016	3.911	4.302	3.715	3.715
25	.017	4.081	4.489	3.877	3.877
26	.017	4.251	4.676	4.038	4.038
27	.018	4.421	4.863	4.200	4.200
28	.019	4.591	5.050	4.361	4.361
29	.020	4.761	5.237	4.523	4.523
30	.020	4.931	5.424	4.684	4.684
31	.021	5.101	5.611	4.846	4.846
32	.022	5.271	5.798	5.007	5.007
33	.022	5.441	5.985	5.169	5.169
34	.023	5.611	6.172	5.330	5.330
35	.024	5.781	6.359	5.492	5.492
36	.024	5.951	6.546	5.653	5.653
37	.025	6.121	6.733	5.815	5.815
38	.026	6.291	6.920	5.977	5.977
39	.026	6.461	7.107	6.138	6.138
40	.027	6.631	7.294	6.300	6.300
41	.028	6.801	7.481	6.461	6.461
42	.029	6.971	7.668	6.623	6.623
43	.029	7.141	7.855	6.784	6.784
44	.030	7.311	8.042	6.946	6.946
45	.031	7.481	8.229	7.107	7.107
46	.031	7.651	8.416	7.269	7.269
47	.032	7.821	8.603	7.430	7.430
48	.033	7.991	8.791	7.592	7.592
49	.033	8.161	8.978	7.753	7.753
50	.034	8.331	9.165	7.915	7.915
51	.035	8.501	9.352	8.076	8.076
52	.036	8.671	9.539	8.238	8.238
53	.036	8.842	9.726	8.399	8.399

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW (APPL.-HI. ORDER LANG)

NO. TERMS	HIGH PERTURBATION VALUE =		.1000	
	LOW PERTURBATION VALUE =		.0500	
	OUTER LOOP PARAMETER =		4.500	
	INNER LOOP PARAMETER =		400.000	
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000
2	.001	.191	.210	.181
3	.001	.382	.420	.363
4	.002	.573	.630	.544
5	.003	.764	.840	.725
6	.003	.954	1.050	.907
7	.004	1.145	1.260	1.088
8	.005	1.336	1.470	1.269
9	.006	1.527	1.680	1.451
10	.006	1.718	1.890	1.632
11	.007	1.909	2.100	1.813
12	.008	2.100	2.310	1.995
13	.008	2.291	2.520	2.176
14	.009	2.482	2.730	2.357
15	.010	2.672	2.940	2.539
16	.010	2.863	3.150	2.720
17	.011	3.054	3.360	2.902
18	.012	3.245	3.570	3.083
19	.013	3.436	3.780	3.264
20	.013	3.627	3.990	3.446
21	.014	3.818	4.200	3.627
22	.015	4.009	4.410	3.808
23	.015	4.200	4.620	3.990
24	.016	4.390	4.829	4.171
25	.017	4.581	5.039	4.352
26	.017	4.772	5.249	4.534
27	.018	4.963	5.459	4.715
28	.019	5.154	5.669	4.896
29	.020	5.345	5.879	5.078
30	.020	5.536	6.089	5.259
31	.021	5.727	6.299	5.440
32	.022	5.918	6.509	5.622
33	.022	6.108	6.719	5.803
34	.023	6.299	6.929	5.984
35	.024	6.490	7.139	6.166
36	.024	6.681	7.349	6.347
37	.025	6.872	7.559	6.528
38	.026	7.063	7.769	6.710
39	.026	7.254	7.979	6.891
40	.027	7.445	8.189	7.072
41	.028	7.636	8.399	7.254
42	.029	7.826	8.609	7.435
43	.029	8.017	8.819	7.616
44	.030	8.208	9.029	7.798
45	.031	8.399	9.239	7.979
46	.031	8.590	9.449	8.161
47	.032	8.781	9.659	8.342
48	.033	8.972	9.869	8.523
49	.033	9.163	10.079	8.705
50	.034	9.354	10.289	8.886
51	.035	9.544	10.499	9.067
52	.036	9.735	10.709	9.249
53	.036	9.926	10.919	9.430

PARAMETRIC COST ESTIMATE-DR. AARON N. SILVER-AVIONICS SW. (APPL.-HI. ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER = 4.500		INNER LOOP PARAMETER = 450.000		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	.001	.211	.233	.201	.201
3	.001	.423	.465	.402	.402
4	.002	.634	.698	.602	.602
5	.003	.846	.930	.803	.803
6	.003	1.057	1.163	1.004	1.004
7	.004	1.268	1.395	1.205	1.205
8	.005	1.480	1.628	1.406	1.406
9	.006	1.691	1.860	1.607	1.607
10	.006	1.903	2.093	1.807	1.807
11	.007	2.114	2.325	2.008	2.008
12	.008	2.325	2.558	2.209	2.209
13	.008	2.537	2.791	2.410	2.410
14	.009	2.748	3.023	2.611	2.611
15	.010	2.960	3.256	2.812	2.812
16	.010	3.171	3.488	3.012	3.012
17	.011	3.382	3.721	3.213	3.213
18	.012	3.594	3.953	3.414	3.414
19	.013	3.805	4.186	3.615	3.615
20	.013	4.017	4.418	3.816	3.816
21	.014	4.228	4.651	4.017	4.017
22	.015	4.439	4.883	4.217	4.217
23	.015	4.651	5.116	4.418	4.418
24	.016	4.862	5.348	4.619	4.619
25	.017	5.074	5.581	4.820	4.820
26	.017	5.285	5.814	5.021	5.021
27	.018	5.496	6.046	5.222	5.222
28	.019	5.708	6.279	5.422	5.422
29	.020	5.919	6.511	5.623	5.623
30	.020	6.131	6.744	5.824	5.824
31	.021	6.342	6.976	6.025	6.025
32	.022	6.553	7.209	6.226	6.226
33	.022	6.765	7.441	6.427	6.427
34	.023	6.976	7.674	6.627	6.627
35	.024	7.188	7.906	6.828	6.828
36	.024	7.399	8.139	7.029	7.029
37	.025	7.610	8.372	7.230	7.230
38	.026	7.822	8.604	7.431	7.431
39	.026	8.033	8.837	7.632	7.632
40	.027	8.245	9.069	7.832	7.832
41	.028	8.456	9.302	8.033	8.033
42	.029	8.668	9.534	8.234	8.234
43	.029	8.879	9.767	8.435	8.435
44	.030	9.090	9.999	8.636	8.636
45	.031	9.302	10.232	8.837	8.837
46	.031	9.513	10.464	9.037	9.037
47	.032	9.725	10.697	9.238	9.238
48	.033	9.936	10.930	9.439	9.439
49	.033	10.147	11.162	9.640	9.640
50	.034	10.359	11.395	9.841	9.841
51	.035	10.570	11.627	10.042	10.042
52	.036	10.782	11.860	10.242	10.242
53	.036	10.993	12.092	10.443	10.443

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500		INNER LOOP PARAMETER= 500.000		LO. VAL.
	IND. VAL.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	.001	.232	.255	.220	.220
3	.001	.463	.510	.440	.440
4	.002	.695	.764	.660	.660
5	.003	.926	1.019	.880	.880
6	.003	1.158	1.274	1.100	1.100
7	.004	1.390	1.529	1.320	1.320
8	.005	1.621	1.783	1.540	1.540
9	.006	1.853	2.038	1.760	1.760
10	.006	2.085	2.293	1.980	1.980
11	.007	2.316	2.548	2.200	2.200
12	.008	2.548	2.803	2.420	2.420
13	.008	2.779	3.057	2.640	2.640
14	.009	3.011	3.312	2.860	2.860
15	.010	3.243	3.567	3.080	3.080
16	.010	3.474	3.822	3.301	3.301
17	.011	3.706	4.076	3.521	3.521
18	.012	3.937	4.331	3.741	3.741
19	.013	4.169	4.586	3.961	3.961
20	.013	4.401	4.841	4.181	4.181
21	.014	4.632	5.096	4.401	4.401
22	.015	4.864	5.350	4.621	4.621
23	.015	5.096	5.605	4.841	4.841
24	.016	5.327	5.860	5.061	5.061
25	.017	5.559	6.115	5.281	5.281
26	.017	5.790	6.369	5.501	5.501
27	.018	6.022	6.624	5.721	5.721
28	.019	6.254	6.879	5.941	5.941
29	.020	6.485	7.134	6.161	6.161
30	.020	6.717	7.388	6.381	6.381
31	.021	6.948	7.643	6.601	6.601
32	.022	7.180	7.898	6.821	6.821
33	.022	7.412	8.153	7.041	7.041
34	.023	7.643	8.408	7.261	7.261
35	.024	7.875	8.662	7.481	7.481
36	.024	8.106	8.917	7.701	7.701
37	.025	8.338	9.172	7.921	7.921
38	.026	8.570	9.427	8.141	8.141
39	.026	8.801	9.681	8.361	8.361
40	.027	9.033	9.936	8.581	8.581
41	.028	9.265	10.191	8.801	8.801
42	.029	9.496	10.446	9.021	9.021
43	.029	9.728	10.701	9.241	9.241
44	.030	9.959	10.955	9.461	9.461
45	.031	10.191	11.210	9.681	9.681
46	.031	10.423	11.465	9.902	9.902
47	.032	10.654	11.720	10.122	10.122
48	.033	10.886	11.974	10.342	10.342
49	.033	11.117	12.229	10.562	10.562
50	.034	11.349	12.484	10.782	10.782
51	.035	11.581	12.739	11.002	11.002
52	.036	11.812	12.994	11.222	11.222
53	.036	12.044	13.248	11.442	11.442

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER- AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500			
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000
2	.001	.252	.277	.239
3	.001	.503	.553	.478
4	.002	.755	.830	.717
5	.003	1.006	1.107	.956
6	.003	1.258	1.384	1.195
7	.004	1.509	1.660	1.434
8	.005	1.761	1.937	1.673
9	.006	2.012	2.214	1.912
10	.006	2.264	2.490	2.151
11	.007	2.516	2.767	2.390
12	.008	2.767	3.044	2.629
13	.008	3.019	3.321	2.868
14	.009	3.270	3.597	3.107
15	.010	3.522	3.874	3.346
16	.010	3.773	4.151	3.585
17	.011	4.025	4.427	3.824
18	.012	4.276	4.704	4.063
19	.013	4.528	4.981	4.302
20	.013	4.780	5.258	4.541
21	.014	5.031	5.534	4.780
22	.015	5.283	5.811	5.019
23	.015	5.534	6.088	5.258
24	.016	5.786	6.364	5.497
25	.017	6.037	6.641	5.736
26	.017	6.289	6.918	5.974
27	.018	6.540	7.195	6.213
28	.019	6.792	7.471	6.452
29	.020	7.044	7.748	6.691
30	.020	7.295	8.025	6.930
31	.021	7.547	8.301	7.169
32	.022	7.798	8.578	7.408
33	.022	8.050	8.855	7.647
34	.023	8.301	9.132	7.886
35	.024	8.553	9.408	8.125
36	.024	8.804	9.685	8.364
37	.025	9.056	9.962	8.603
38	.026	9.308	10.238	8.842
39	.026	9.559	10.515	9.081
40	.027	9.811	10.792	9.320
41	.028	10.062	11.069	9.559
42	.029	10.314	11.345	9.798
43	.029	10.565	11.622	10.037
44	.030	10.817	11.899	10.276
45	.031	11.069	12.175	10.515
46	.031	11.320	12.452	10.754
47	.032	11.572	12.729	10.993
48	.033	11.823	13.006	11.232
49	.033	12.075	13.282	11.471
50	.034	12.326	13.559	11.710
51	.035	12.578	13.836	11.949
52	.036	12.829	14.112	12.188
53	.036	13.081	14.389	12.427

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW.(APPL.-HI.ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500			INNER LOOP PARAMETER= 600.000			LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000	0.000	
2	.001	.271	.298	.258			
3	.001	.543	.597	.515			
4	.002	.814	.895	.773			
5	.003	1.085	1.194	1.031			
6	.003	1.356	1.492	1.288			
7	.004	1.628	1.790	1.546			
8	.005	1.899	2.089	1.804			
9	.006	2.170	2.387	2.062			
10	.006	2.441	2.685	2.319			
11	.007	2.713	2.984	2.577			
12	.008	2.984	3.282	2.835			
13	.008	3.255	3.581	3.092			
14	.009	3.526	3.879	3.350			
15	.010	3.798	4.177	3.608			
16	.010	4.069	4.476	3.865			
17	.011	4.340	4.774	4.123			
18	.012	4.611	5.073	4.381			
19	.013	4.883	5.371	4.639			
20	.013	5.154	5.669	4.896			
21	.014	5.425	5.968	5.154			
22	.015	5.696	6.266	5.412			
23	.015	5.968	6.564	5.669			
24	.016	6.239	6.863	5.927			
25	.017	6.510	7.161	6.185			
26	.017	6.781	7.460	6.442			
27	.018	7.053	7.758	6.700			
28	.019	7.324	8.056	6.958			
29	.020	7.595	8.355	7.216			
30	.020	7.867	8.653	7.473			
31	.021	8.138	8.952	7.731			
32	.022	8.409	9.250	7.989			
33	.022	8.680	9.548	8.246			
34	.023	8.952	9.847	8.504			
35	.024	9.223	10.145	8.762			
36	.024	9.494	10.443	9.019			
37	.025	9.765	10.742	9.277			
38	.026	10.037	11.040	9.535			
39	.026	10.308	11.339	9.792			
40	.027	10.579	11.637	10.050			
41	.028	10.850	11.935	10.308			
42	.029	11.122	12.234	10.566			
43	.029	11.393	12.532	10.823			
44	.030	11.664	12.831	11.081			
45	.031	11.935	13.129	11.339			
46	.031	12.207	13.427	11.596			
47	.032	12.478	13.726	11.854			
48	.033	12.749	14.024	12.112			
49	.033	13.020	14.322	12.369			
50	.034	13.292	14.621	12.627			
51	.035	13.563	14.919	12.885			
52	.036	13.834	15.218	13.143			
53	.036	14.105	15.516	13.400			

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500				INNER LOOP PARAMETER= 650.000				LO. VAL.			
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.
1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
2	.001	.291	.320	.276	.001	.291	.320	.276	.001	.291	.320	.276
3	.001	.581	.640	.552	.001	.581	.640	.552	.001	.581	.640	.552
4	.002	.872	.959	.829	.002	.872	.959	.829	.002	.872	.959	.829
5	.003	1.163	1.279	1.105	.003	1.163	1.279	1.105	.003	1.163	1.279	1.105
6	.003	1.454	1.599	1.381	.003	1.454	1.599	1.381	.003	1.454	1.599	1.381
7	.004	1.744	1.919	1.657	.004	1.744	1.919	1.657	.004	1.744	1.919	1.657
8	.005	2.035	2.239	1.933	.005	2.035	2.239	1.933	.005	2.035	2.239	1.933
9	.006	2.326	2.559	2.210	.006	2.326	2.559	2.210	.006	2.326	2.559	2.210
10	.006	2.617	2.878	2.486	.006	2.617	2.878	2.486	.006	2.617	2.878	2.486
11	.007	2.907	3.198	2.762	.007	2.907	3.198	2.762	.007	2.907	3.198	2.762
12	.008	3.198	3.518	3.038	.008	3.198	3.518	3.038	.008	3.198	3.518	3.038
13	.008	3.489	3.838	3.314	.008	3.489	3.838	3.314	.008	3.489	3.838	3.314
14	.009	3.780	4.158	3.591	.009	3.780	4.158	3.591	.009	3.780	4.158	3.591
15	.010	4.070	4.477	3.867	.010	4.070	4.477	3.867	.010	4.070	4.477	3.867
16	.010	4.361	4.797	4.143	.010	4.361	4.797	4.143	.010	4.361	4.797	4.143
17	.011	4.652	5.117	4.419	.011	4.652	5.117	4.419	.011	4.652	5.117	4.419
18	.012	4.943	5.437	4.696	.012	4.943	5.437	4.696	.012	4.943	5.437	4.696
19	.013	5.233	5.757	4.972	.013	5.233	5.757	4.972	.013	5.233	5.757	4.972
20	.013	5.524	6.077	5.248	.013	5.524	6.077	5.248	.013	5.524	6.077	5.248
21	.014	5.815	6.396	5.524	.014	5.815	6.396	5.524	.014	5.815	6.396	5.524
22	.015	6.106	6.716	5.800	.015	6.106	6.716	5.800	.015	6.106	6.716	5.800
23	.015	6.396	7.036	6.077	.015	6.396	7.036	6.077	.015	6.396	7.036	6.077
24	.016	6.687	7.356	6.353	.016	6.687	7.356	6.353	.016	6.687	7.356	6.353
25	.017	6.978	7.676	6.629	.017	6.978	7.676	6.629	.017	6.978	7.676	6.629
26	.017	7.269	7.995	6.905	.017	7.269	7.995	6.905	.017	7.269	7.995	6.905
27	.018	7.559	8.315	7.181	.018	7.559	8.315	7.181	.018	7.559	8.315	7.181
28	.019	7.850	8.635	7.458	.019	7.850	8.635	7.458	.019	7.850	8.635	7.458
29	.020	8.141	8.955	7.734	.020	8.141	8.955	7.734	.020	8.141	8.955	7.734
30	.020	8.432	9.275	8.010	.020	8.432	9.275	8.010	.020	8.432	9.275	8.010
31	.021	8.722	9.595	8.286	.021	8.722	9.595	8.286	.021	8.722	9.595	8.286
32	.022	9.013	9.914	8.562	.022	9.013	9.914	8.562	.022	9.013	9.914	8.562
33	.022	9.304	10.234	8.839	.022	9.304	10.234	8.839	.022	9.304	10.234	8.839
34	.023	9.595	10.554	9.115	.023	9.595	10.554	9.115	.023	9.595	10.554	9.115
35	.024	9.885	10.874	9.391	.024	9.885	10.874	9.391	.024	9.885	10.874	9.391
36	.024	10.176	11.194	9.667	.024	10.176	11.194	9.667	.024	10.176	11.194	9.667
37	.025	10.467	11.513	9.943	.025	10.467	11.513	9.943	.025	10.467	11.513	9.943
38	.026	10.758	11.833	10.220	.026	10.758	11.833	10.220	.026	10.758	11.833	10.220
39	.026	11.048	12.153	10.496	.026	11.048	12.153	10.496	.026	11.048	12.153	10.496
40	.027	11.339	12.473	10.772	.027	11.339	12.473	10.772	.027	11.339	12.473	10.772
41	.028	11.630	12.793	11.048	.028	11.630	12.793	11.048	.028	11.630	12.793	11.048
42	.029	11.920	13.113	11.324	.029	11.920	13.113	11.324	.029	11.920	13.113	11.324
43	.029	12.211	13.432	11.601	.029	12.211	13.432	11.601	.029	12.211	13.432	11.601
44	.030	12.502	13.752	11.877	.030	12.502	13.752	11.877	.030	12.502	13.752	11.877
45	.031	12.793	14.072	12.153	.031	12.793	14.072	12.153	.031	12.793	14.072	12.153
46	.031	13.083	14.392	12.429	.031	13.083	14.392	12.429	.031	13.083	14.392	12.429
47	.032	13.374	14.712	12.706	.032	13.374	14.712	12.706	.032	13.374	14.712	12.706
48	.033	13.665	15.031	12.982	.033	13.665	15.031	12.982	.033	13.665	15.031	12.982
49	.033	13.956	15.351	13.258	.033	13.956	15.351	13.258	.033	13.956	15.351	13.258
50	.034	14.246	15.671	13.534	.034	14.246	15.671	13.534	.034	14.246	15.671	13.534
51	.035	14.537	15.991	13.810	.035	14.537	15.991	13.810	.035	14.537	15.991	13.810
52	.036	14.828	16.311	14.087	.036	14.828	16.311	14.087	.036	14.828	16.311	14.087
53	.036	15.119	16.631	14.363	.036	15.119	16.631	14.363	.036	15.119	16.631	14.363

+++++PARAMETER SETTINGS FOR PARAMETRIC TRADE ANALYSIS--DR. AARON N. SILVER--MOD. 9 \$+++++

=====PARAMETRIC TRADE ANALYSIS INPUT PARAMETERS=====

THE PARAMETRIC TRADE EQUATION IS OF THE FORM $E(I,J)=F(TC,R,V)$
WHERE $E(I,J)$ IS THE INDEPENDENT VARIABLE
TC IS THE DEPENDENT VARIABLE
R IS THE INNER LOOP PARAMETER
V IS THE OUTER LOOP PARAMETER

-----PARAMETRIC COST ESTIMATES--DR. AARON N. SILVER--AVIONICS SW.(APPL.-HI.ORDER LANG)-----

OUTER LOOP PARAMETERS
OINITIAL ODELTA OMAXIM
4.500 1.000 4.500

INNER LOOP PARAMETERS
IINITIAL IDELTA IMAXIM
200.000 50.000 650.000

INDEPENDENT VARIABLE
XINITIAL XDELTA XMAXIM
0.000 .100 5.400

-----PLOT PARAMETER SETTINGS FOR PARAMETRIC TRADE ANALYSIS INPUT CONSTANTS-----

(KP = -1 KP1= 1 KP2= -1 KP3= 1 KP4= 1 KPA= 1 KPB= 1 KPP= 1)
KP = -1 INDIVIDUAL CURVES NOT PLOTTED
KP1= 1 AGGREGATE CURVES PLOTTED
KPP= 1 ALL PLOTS OBTAINED(LIN./S-LOG/L-LOG)
KP2= -1 PERTURBATION CURVES NOT PLOTTED

-----PRINT PARAMETER SETTINGS FOR PARAMETRIC TRADE ANALYSIS INPUT CONSTANTS-----

(KPT= 1 KP3= 1 KP4= -1)
KPT= 1 ALL PRINTOUT OBTAINED
KP3= 1 PERTURBATION PRINTOUT OBTAINED
KP4= -1 INDIVIDUAL PRINTOUT NOT OBTAINED

-----CONFIGURATION MODE FOR PARAMETRIC TRADE ANALYSIS INPUT CONSTANTS-----

MULTIPLE VARIABLE ASYMPTOTIC REGRESSION ANALYSIS
CONSTANT TERM = .017
C3= 1.000 C4= .867 C5= .279
EQ. OF FORM Y= C2(TC.EX(C3))(R.EX(C4))(V.EX(C5))

=====OUTPUT COMPUTATIONS=====

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)------

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500			INNER LOOP PARAMETER= 200.000			LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	IND. VAR.	DEP. VAR.	HI. VAL.	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	.100	.262	.288	.100	.288	.249	.249
3	.200	.523	.576	.200	.576	.497	.497
4	.300	.785	.864	.300	.864	.746	.746
5	.400	1.047	1.152	.400	1.152	.995	.995
6	.500	1.309	1.439	.500	1.439	1.243	1.243
7	.600	1.570	1.727	.600	1.727	1.492	1.492
8	.700	1.832	2.015	.700	2.015	1.740	1.740
9	.800	2.094	2.303	.800	2.303	1.989	1.989
10	.900	2.356	2.591	.900	2.591	2.238	2.238
11	1.000	2.617	2.879	1.000	2.879	2.486	2.486
12	1.100	2.879	3.167	1.100	3.167	2.735	2.735
13	1.200	3.141	3.455	1.200	3.455	2.984	2.984
14	1.300	3.402	3.743	1.300	3.743	3.232	3.232
15	1.400	3.664	4.031	1.400	4.031	3.481	3.481
16	1.500	3.926	4.318	1.500	4.318	3.730	3.730
17	1.600	4.188	4.606	1.600	4.606	3.978	3.978
18	1.700	4.449	4.894	1.700	4.894	4.227	4.227
19	1.800	4.711	5.182	1.800	5.182	4.475	4.475
20	1.900	4.973	5.470	1.900	5.470	4.724	4.724
21	2.000	5.234	5.758	2.000	5.758	4.973	4.973
22	2.100	5.496	6.046	2.100	6.046	5.221	5.221
23	2.200	5.758	6.334	2.200	6.334	5.470	5.470
24	2.300	6.020	6.622	2.300	6.622	5.719	5.719
25	2.400	6.281	6.909	2.400	6.909	5.967	5.967
26	2.500	6.543	7.197	2.500	7.197	6.216	6.216
27	2.600	6.805	7.485	2.600	7.485	6.465	6.465
28	2.700	7.067	7.773	2.700	7.773	6.713	6.713
29	2.800	7.328	8.061	2.800	8.061	6.962	6.962
30	2.900	7.590	8.349	2.900	8.349	7.210	7.210
31	3.000	7.852	8.637	3.000	8.637	7.459	7.459
32	3.100	8.113	8.925	3.100	8.925	7.708	7.708
33	3.200	8.375	9.213	3.200	9.213	7.956	7.956
34	3.300	8.637	9.501	3.300	9.501	8.205	8.205
35	3.400	8.899	9.788	3.400	9.788	8.454	8.454
36	3.500	9.160	10.076	3.500	10.076	8.702	8.702
37	3.600	9.422	10.364	3.600	10.364	8.951	8.951
38	3.700	9.684	10.652	3.700	10.652	9.200	9.200
39	3.800	9.945	10.940	3.800	10.940	9.448	9.448
40	3.900	10.207	11.228	3.900	11.228	9.697	9.697
41	4.000	10.469	11.516	4.000	11.516	9.945	9.945
42	4.100	10.731	11.804	4.100	11.804	10.194	10.194
43	4.200	10.992	12.092	4.200	12.092	10.443	10.443
44	4.300	11.254	12.380	4.300	12.380	10.691	10.691
45	4.400	11.516	12.667	4.400	12.667	10.940	10.940
46	4.500	11.778	12.955	4.500	12.955	11.189	11.189
47	4.600	12.039	13.243	4.600	13.243	11.437	11.437
48	4.700	12.301	13.531	4.700	13.531	11.686	11.686
49	4.800	12.563	13.819	4.800	13.819	11.935	11.935
50	4.900	12.824	14.107	4.900	14.107	12.183	12.183

----- PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)-----

NO. TERMS	HIGH PERTURBATION VALUE =		LOW PERTURBATION VALUE =		OUTER LOOP PARAMETER =		INNER LOOP PARAMETER =		HI. VAL.		LO. VAL.	
	.1000		.0500		4.500		250.000		HI. VAL.		LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	.100	.318	.349	.302	.635	.699	.603	.603	.603	.603	.603	.603
3	.200	.635	.699	.603	.953	1.048	.905	.905	.905	.905	.905	.905
4	.300	.953	1.048	.905	1.270	1.397	1.207	1.207	1.207	1.207	1.207	1.207
5	.400	1.270	1.397	1.207	1.588	1.747	1.508	1.508	1.508	1.508	1.508	1.508
6	.500	1.588	1.747	1.508	1.905	2.096	1.810	1.810	1.810	1.810	1.810	1.810
7	.600	1.905	2.096	1.810	2.223	2.445	2.112	2.112	2.112	2.112	2.112	2.112
8	.700	2.223	2.445	2.112	2.540	2.795	2.413	2.413	2.413	2.413	2.413	2.413
9	.800	2.540	2.795	2.413	2.858	3.144	2.715	2.715	2.715	2.715	2.715	2.715
10	.900	2.858	3.144	2.715	3.176	3.493	3.017	3.017	3.017	3.017	3.017	3.017
11	1.000	3.176	3.493	3.017	3.811	4.192	3.620	3.620	3.620	3.620	3.620	3.620
12	1.100	3.493	3.811	3.017	4.128	4.541	3.922	3.922	3.922	3.922	3.922	3.922
13	1.200	3.811	4.128	3.017	4.446	4.890	4.224	4.224	4.224	4.224	4.224	4.224
14	1.300	4.128	4.446	3.017	4.763	5.240	4.525	4.525	4.525	4.525	4.525	4.525
15	1.400	4.446	4.763	3.017	5.081	5.589	4.827	4.827	4.827	4.827	4.827	4.827
16	1.500	4.763	5.081	3.017	5.399	5.938	5.129	5.129	5.129	5.129	5.129	5.129
17	1.600	5.081	5.399	3.017	5.716	6.288	5.430	5.430	5.430	5.430	5.430	5.430
18	1.700	5.399	5.716	3.017	6.034	6.637	5.732	5.732	5.732	5.732	5.732	5.732
19	1.800	5.716	6.034	3.017	6.351	6.986	6.034	6.034	6.034	6.034	6.034	6.034
20	1.900	6.034	6.351	3.017	6.669	7.336	6.335	6.335	6.335	6.335	6.335	6.335
21	2.000	6.351	6.669	3.017	6.986	7.685	6.637	6.637	6.637	6.637	6.637	6.637
22	2.100	6.669	6.986	3.017	7.304	8.034	6.939	6.939	6.939	6.939	6.939	6.939
23	2.200	6.986	7.304	3.017	7.621	8.384	7.240	7.240	7.240	7.240	7.240	7.240
24	2.300	7.304	7.621	3.017	7.939	8.733	7.542	7.542	7.542	7.542	7.542	7.542
25	2.400	7.621	7.939	3.017	8.257	9.082	7.844	7.844	7.844	7.844	7.844	7.844
26	2.500	7.939	8.257	3.017	8.574	9.432	8.145	8.145	8.145	8.145	8.145	8.145
27	2.600	8.257	8.574	3.017	8.892	9.781	8.447	8.447	8.447	8.447	8.447	8.447
28	2.700	8.574	8.892	3.017	9.209	10.130	8.749	8.749	8.749	8.749	8.749	8.749
29	2.800	8.892	9.209	3.017	9.527	10.479	9.050	9.050	9.050	9.050	9.050	9.050
30	2.900	9.209	9.527	3.017	9.844	10.829	9.352	9.352	9.352	9.352	9.352	9.352
31	3.000	9.527	9.844	3.017	10.162	11.178	9.654	9.654	9.654	9.654	9.654	9.654
32	3.100	9.844	10.162	3.017	10.479	11.527	9.956	9.956	9.956	9.956	9.956	9.956
33	3.200	10.162	10.479	3.017	10.797	11.877	10.257	10.257	10.257	10.257	10.257	10.257
34	3.300	10.479	10.797	3.017	11.115	12.226	10.559	10.559	10.559	10.559	10.559	10.559
35	3.400	10.797	11.115	3.017	11.432	12.575	10.861	10.861	10.861	10.861	10.861	10.861
36	3.500	11.115	11.432	3.017	11.750	12.925	11.162	11.162	11.162	11.162	11.162	11.162
37	3.600	11.432	11.750	3.017	12.067	13.274	11.464	11.464	11.464	11.464	11.464	11.464
38	3.700	11.750	12.067	3.017	12.385	13.623	11.766	11.766	11.766	11.766	11.766	11.766
39	3.800	12.067	12.385	3.017	12.702	13.973	12.067	12.067	12.067	12.067	12.067	12.067
40	3.900	12.385	12.702	3.017	13.020	14.322	12.369	12.369	12.369	12.369	12.369	12.369
41	4.000	12.702	13.020	3.017	13.338	14.671	12.671	12.671	12.671	12.671	12.671	12.671
42	4.100	13.020	13.338	3.017	13.655	15.021	12.972	12.972	12.972	12.972	12.972	12.972
43	4.200	13.338	13.655	3.017	13.973	15.370	13.274	13.274	13.274	13.274	13.274	13.274
44	4.300	13.655	13.973	3.017	14.290	15.719	13.576	13.576	13.576	13.576	13.576	13.576
45	4.400	13.973	14.290	3.017	14.608	16.069	13.877	13.877	13.877	13.877	13.877	13.877
46	4.500	14.290	14.608	3.017	14.925	16.418	14.179	14.179	14.179	14.179	14.179	14.179
47	4.600	14.608	14.925	3.017	15.243	16.767	14.481	14.481	14.481	14.481	14.481	14.481
48	4.700	14.925	15.243	3.017	15.560	17.117	14.782	14.782	14.782	14.782	14.782	14.782
49	4.800	15.243	15.560	3.017	15.878	17.466	15.084	15.084	15.084	15.084	15.084	15.084
50	4.900	15.560	15.878	3.017	16.196	17.815	15.386	15.386	15.386	15.386	15.386	15.386
51	5.000	15.878	16.196	3.017	16.513	18.164	15.687	15.687	15.687	15.687	15.687	15.687
52	5.100	16.196	16.513	3.017								
53	5.200	16.513		3.017								

-----PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER = 4.500		INNER LOOP PARAMETER = 300.000		HI. VAL.	LO. VAL.
	IND. VAR.	DEP. VAR.	IND. VAR.	DEP. VAR.		
1	0.000	0.000	0.000	0.000	0.000	0.000
2	.100	.372	.409	.353	.707	.353
3	.200	.744	.818	.707	1.060	1.060
4	.300	1.116	1.227	1.060	1.413	1.413
5	.400	1.488	1.636	1.413	1.767	1.767
6	.500	1.860	2.046	1.767	2.120	2.120
7	.600	2.232	2.455	2.120	2.473	2.473
8	.700	2.603	2.864	2.473	2.827	2.827
9	.800	2.975	3.273	2.827	3.180	3.180
10	.900	3.347	3.682	3.180	3.533	3.533
11	1.000	3.719	4.091	3.533	3.887	3.887
12	1.100	4.091	4.500	3.887	4.240	4.240
13	1.200	4.463	4.909	4.240	4.593	4.593
14	1.300	4.835	5.318	4.593	4.947	4.947
15	1.400	5.207	5.728	4.947	5.300	5.300
16	1.500	5.579	6.137	5.300	5.653	5.653
17	1.600	5.951	6.546	5.653	6.006	6.006
18	1.700	6.323	6.955	6.006	6.360	6.360
19	1.800	6.695	7.364	6.360	6.713	6.713
20	1.900	7.066	7.773	6.713	7.066	7.066
21	2.000	7.438	8.182	7.066	7.420	7.420
22	2.100	7.810	8.591	7.420	7.773	7.773
23	2.200	8.182	9.000	7.773	8.126	8.126
24	2.300	8.554	9.410	8.126	8.480	8.480
25	2.400	8.926	9.819	8.480	8.833	8.833
26	2.500	9.298	10.228	8.833	9.186	9.186
27	2.600	9.670	10.637	9.186	9.540	9.540
28	2.700	10.042	11.046	9.540	9.893	9.893
29	2.800	10.414	11.455	9.893	10.246	10.246
30	2.900	10.786	11.864	10.246	10.600	10.600
31	3.000	11.158	12.273	10.600	10.953	10.953
32	3.100	11.529	12.682	10.953	11.306	11.306
33	3.200	11.901	13.091	11.306	11.660	11.660
34	3.300	12.273	13.501	11.660	12.013	12.013
35	3.400	12.645	13.910	12.013	12.366	12.366
36	3.500	13.017	14.319	12.366	12.720	12.720
37	3.600	13.389	14.728	12.720	13.073	13.073
38	3.700	13.761	15.137	13.073	13.426	13.426
39	3.800	14.133	15.546	13.426	13.780	13.780
40	3.900	14.505	15.955	13.780	14.133	14.133
41	4.000	14.877	16.364	14.133	14.486	14.486
42	4.100	15.249	16.773	14.486	14.840	14.840
43	4.200	15.621	17.183	14.840	15.193	15.193
44	4.300	15.992	17.592	15.193	15.546	15.546
45	4.400	16.364	18.001	15.546	15.899	15.899
46	4.500	16.736	18.410	15.899	16.253	16.253
47	4.600	17.108	18.819	16.253	16.606	16.606
48	4.700	17.480	19.228	16.606	16.959	16.959
49	4.800	17.852	19.637	16.959	17.313	17.313
50	4.900	18.224	20.046	17.313	17.666	17.666
51	5.000	18.596	20.455	17.666	18.019	18.019
52	5.100	18.968	20.865	18.019	18.373	18.373
53	5.200	19.340	21.274	18.373		

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)-----

NO. TERMS	HIGH PERTURBATION VALUE = .1000		LOW PERTURBATION VALUE = .0500	
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000
2	.100	.425	.468	.404
3	.200	.850	.935	.808
4	.300	1.275	1.403	1.211
5	.400	1.700	1.870	1.615
6	.500	2.125	2.338	2.019
7	.600	2.550	2.805	2.423
8	.700	2.976	3.273	2.827
9	.800	3.401	3.741	3.231
10	.900	3.826	4.208	3.634
11	1.000	4.251	4.676	4.038
12	1.100	4.676	5.143	4.442
13	1.200	5.101	5.611	4.846
14	1.300	5.526	6.079	5.250
15	1.400	5.951	6.546	5.653
16	1.500	6.376	7.014	6.057
17	1.600	6.801	7.481	6.461
18	1.700	7.226	7.949	6.865
19	1.800	7.651	8.416	7.269
20	1.900	8.076	8.884	7.673
21	2.000	8.501	9.352	8.076
22	2.100	8.927	9.819	8.480
23	2.200	9.352	10.287	8.884
24	2.300	9.777	10.754	9.288
25	2.400	10.202	11.222	9.692
26	2.500	10.627	11.690	10.095
27	2.600	11.052	12.157	10.499
28	2.700	11.477	12.625	10.903
29	2.800	11.902	13.092	11.307
30	2.900	12.327	13.560	11.711
31	3.000	12.752	14.027	12.115
32	3.100	13.177	14.495	12.518
33	3.200	13.602	14.963	12.922
34	3.300	14.027	15.430	13.326
35	3.400	14.452	15.898	13.730
36	3.500	14.878	16.365	14.134
37	3.600	15.303	16.833	14.538
38	3.700	15.728	17.300	14.941
39	3.800	16.153	17.768	15.345
40	3.900	16.578	18.236	15.749
41	4.000	17.003	18.703	16.153
42	4.100	17.428	19.171	16.557
43	4.200	17.853	19.638	16.960
44	4.300	18.278	20.106	17.364
45	4.400	18.703	20.574	17.768
46	4.500	19.128	21.041	18.172
47	4.600	19.553	21.509	18.576
48	4.700	19.978	21.976	18.980
49	4.800	20.404	22.444	19.383
50	4.900	20.829	22.911	19.787
51	5.000	21.254	23.379	20.191
52	5.100	21.679	23.847	20.595
53	5.200	22.104	24.314	20.999

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500		INNER LOOP PARAMETER= 400.000		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.477	0.000	0.000	0.000
2	.100	.525	.453	.907	.907
3	.200	.954	1.050	1.360	1.360
4	.300	1.432	1.575	1.813	1.813
5	.400	1.909	2.100	2.267	2.267
6	.500	2.386	2.625	2.720	2.720
7	.600	2.863	3.150	3.174	3.174
8	.700	3.341	3.675	3.627	3.627
9	.800	3.818	4.200	4.080	4.080
10	.900	4.295	4.725	4.534	4.534
11	1.000	4.772	5.249	4.987	4.987
12	1.100	5.249	5.774	5.440	5.440
13	1.200	5.727	6.299	5.894	5.894
14	1.300	6.204	6.824	6.347	6.347
15	1.400	6.681	7.349	6.800	6.800
16	1.500	7.158	7.874	7.254	7.254
17	1.600	7.636	8.399	7.707	7.707
18	1.700	8.113	8.924	8.161	8.161
19	1.800	8.590	9.449	8.614	8.614
20	1.900	9.067	9.974	9.067	9.067
21	2.000	9.544	10.499	9.521	9.521
22	2.100	10.022	11.024	9.974	9.974
23	2.200	10.499	11.549	10.427	10.427
24	2.300	10.976	12.074	10.881	10.881
25	2.400	11.453	12.599	11.334	11.334
26	2.500	11.931	13.124	11.787	11.787
27	2.600	12.408	13.649	12.241	12.241
28	2.700	12.885	14.174	12.694	12.694
29	2.800	13.362	14.698	13.147	13.147
30	2.900	13.839	15.223	13.601	13.601
31	3.000	14.317	15.748	14.054	14.054
32	3.100	14.794	16.273	14.508	14.508
33	3.200	15.271	16.798	14.961	14.961
34	3.300	15.748	17.323	15.414	15.414
35	3.400	16.226	17.848	15.868	15.868
36	3.500	16.703	18.373	16.321	16.321
37	3.600	17.180	18.898	16.774	16.774
38	3.700	17.657	19.423	17.228	17.228
39	3.800	18.134	19.948	17.681	17.681
40	3.900	18.612	20.473	18.134	18.134
41	4.000	19.089	20.998	18.588	18.588
42	4.100	19.566	21.523	19.041	19.041
43	4.200	20.043	22.048	19.495	19.495
44	4.300	20.521	22.573	19.948	19.948
45	4.400	20.998	23.098	20.401	20.401
46	4.500	21.475	23.623	20.855	20.855
47	4.600	21.952	24.147	21.308	21.308
48	4.700	22.429	24.672	21.761	21.761
49	4.800	22.907	25.197	22.215	22.215
50	4.900	23.384	25.722	22.668	22.668
51	5.000	23.861	26.247	23.121	23.121
52	5.100	24.338	26.772	23.575	23.575
53	5.200	24.816	27.297		

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-

NO. TERMS	HIGH PERTURBATION VALUE = .1000		LOW PERTURBATION VALUE = .0500	
	OUTER LOOP PARAMETER = 4.500	INNER LOOP PARAMETER = 450.000	HI. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000
2	.100	.529	.581	.502
3	.200	1.057	1.163	1.004
4	.300	1.586	1.744	1.506
5	.400	2.114	2.325	2.008
6	.500	2.643	2.907	2.510
7	.600	3.171	3.488	3.012
8	.700	3.700	4.070	3.515
9	.800	4.228	4.651	4.017
10	.900	4.757	5.232	4.519
11	1.000	5.285	5.814	5.021
12	1.100	5.814	6.395	5.523
13	1.200	6.342	6.976	6.025
14	1.300	6.871	7.558	6.527
15	1.400	7.399	8.139	7.029
16	1.500	7.928	8.720	7.531
17	1.600	8.456	9.302	8.033
18	1.700	8.985	9.883	8.535
19	1.800	9.513	10.464	9.037
20	1.900	10.042	11.046	9.540
21	2.000	10.570	11.627	10.042
22	2.100	11.099	12.209	10.544
23	2.200	11.627	12.790	11.046
24	2.300	12.156	13.371	11.548
25	2.400	12.684	13.953	12.050
26	2.500	13.213	14.534	12.552
27	2.600	13.741	15.115	13.054
28	2.700	14.270	15.697	13.556
29	2.800	14.798	16.278	14.058
30	2.900	15.327	16.859	14.560
31	3.000	15.855	17.441	15.062
32	3.100	16.384	18.022	15.565
33	3.200	16.912	18.603	16.067
34	3.300	17.441	19.185	16.569
35	3.400	17.969	19.766	17.071
36	3.500	18.498	20.348	17.573
37	3.600	19.026	20.929	18.075
38	3.700	19.555	21.510	18.577
39	3.800	20.083	22.092	19.079
40	3.900	20.612	22.673	19.581
41	4.000	21.140	23.254	20.083
42	4.100	21.669	23.836	20.585
43	4.200	22.197	24.417	21.087
44	4.300	22.726	24.998	21.590
45	4.400	23.254	25.580	22.092
46	4.500	23.783	26.161	22.594
47	4.600	24.311	26.742	23.096
48	4.700	24.840	27.324	23.598
49	4.800	25.368	27.905	24.100
50	4.900	25.897	28.487	24.602
51	5.000	26.425	29.068	25.104
52	5.100	26.954	29.649	25.606
53	5.200	27.482	30.231	26.108

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW.(APPL.-HI-ORDER LANG)

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500				INNER LOOP PARAMETER= 500.000				LO. VAL.	
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.		
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2	.100	.579	.637	.550						
3	.200	1.158	1.274	1.100						
4	.300	1.737	1.911	1.650						
5	.400	2.316	2.548	2.200						
6	.500	2.895	3.185	2.750						
7	.600	3.474	3.822	3.301						
8	.700	4.053	4.459	3.851						
9	.800	4.632	5.096	4.401						
10	.900	5.211	5.732	4.951						
11	1.000	5.790	6.369	5.501						
12	1.100	6.369	7.006	6.051						
13	1.200	6.948	7.643	6.601						
14	1.300	7.527	8.280	7.151						
15	1.400	8.106	8.917	7.701						
16	1.500	8.686	9.554	8.251						
17	1.600	9.265	10.191	8.801						
18	1.700	9.844	10.828	9.351						
19	1.800	10.423	11.465	9.902						
20	1.900	11.002	12.102	10.452						
21	2.000	11.581	12.739	11.002						
22	2.100	12.160	13.376	11.552						
23	2.200	12.739	14.013	12.102						
24	2.300	13.318	14.650	12.652						
25	2.400	13.897	15.287	13.202						
26	2.500	14.476	15.923	13.752						
27	2.600	15.055	16.560	14.302						
28	2.700	15.634	17.197	14.852						
29	2.800	16.213	17.834	15.402						
30	2.900	16.792	18.471	15.952						
31	3.000	17.371	19.108	16.503						
32	3.100	17.950	19.745	17.053						
33	3.200	18.529	20.382	17.603						
34	3.300	19.108	21.019	18.153						
35	3.400	19.687	21.656	18.703						
36	3.500	20.266	22.293	19.253						
37	3.600	20.845	22.930	19.803						
38	3.700	21.424	23.567	20.353						
39	3.800	22.003	24.204	20.903						
40	3.900	22.582	24.841	21.453						
41	4.000	23.161	25.478	22.003						
42	4.100	23.740	26.114	22.553						
43	4.200	24.319	26.751	23.104						
44	4.300	24.899	27.388	23.654						
45	4.400	25.478	28.025	24.204						
46	4.500	26.057	28.662	24.754						
47	4.600	26.636	29.299	25.304						
48	4.700	27.215	29.936	25.854						
49	4.800	27.794	30.573	26.404						
50	4.900	28.373	31.210	26.954						
51	5.000	28.952	31.847	27.504						
52	5.100	29.531	32.484	28.054						
53	5.200	30.110	33.121	28.604						

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500			INNER LOOP PARAMETER= 550.000			LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	IND. VAR.	DEP. VAR.	HI. VAL.	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	.100	.629	.692	.100	.629	.692	.597
3	.200	1.258	1.384	.200	1.258	1.384	1.195
4	.300	1.887	2.075	.300	1.887	2.075	1.792
5	.400	2.516	2.767	.400	2.516	2.767	2.390
6	.500	3.144	3.459	.500	3.144	3.459	2.987
7	.600	3.773	4.151	.600	3.773	4.151	3.585
8	.700	4.402	4.842	.700	4.402	4.842	4.182
9	.800	5.031	5.534	.800	5.031	5.534	4.780
10	.900	5.660	6.226	.900	5.660	6.226	5.377
11	1.000	6.289	6.918	1.000	6.289	6.918	5.974
12	1.100	6.918	7.610	1.100	6.918	7.610	6.572
13	1.200	7.547	8.301	1.200	7.547	8.301	7.169
14	1.300	8.176	8.993	1.300	8.176	8.993	7.767
15	1.400	8.804	9.685	1.400	8.804	9.685	8.364
16	1.500	9.433	10.377	1.500	9.433	10.377	8.962
17	1.600	10.062	11.069	1.600	10.062	11.069	9.559
18	1.700	10.691	11.760	1.700	10.691	11.760	10.157
19	1.800	11.320	12.452	1.800	11.320	12.452	10.754
20	1.900	11.949	13.144	1.900	11.949	13.144	11.352
21	2.000	12.578	13.836	2.000	12.578	13.836	11.949
22	2.100	13.207	14.527	2.100	13.207	14.527	12.546
23	2.200	13.836	15.219	2.200	13.836	15.219	13.144
24	2.300	14.465	15.911	2.300	14.465	15.911	13.741
25	2.400	15.093	16.603	2.400	15.093	16.603	14.339
26	2.500	15.722	17.295	2.500	15.722	17.295	14.936
27	2.600	16.351	17.986	2.600	16.351	17.986	15.534
28	2.700	16.980	18.678	2.700	16.980	18.678	16.131
29	2.800	17.609	19.370	2.800	17.609	19.370	16.729
30	2.900	18.238	20.062	2.900	18.238	20.062	17.326
31	3.000	18.867	20.753	3.000	18.867	20.753	17.923
32	3.100	19.496	21.445	3.100	19.496	21.445	18.521
33	3.200	20.125	22.137	3.200	20.125	22.137	19.118
34	3.300	20.753	22.829	3.300	20.753	22.829	19.716
35	3.400	21.382	23.521	3.400	21.382	23.521	20.313
36	3.500	22.011	24.212	3.500	22.011	24.212	20.911
37	3.600	22.640	24.904	3.600	22.640	24.904	21.508
38	3.700	23.269	25.596	3.700	23.269	25.596	22.106
39	3.800	23.898	26.288	3.800	23.898	26.288	22.703
40	3.900	24.527	26.979	3.900	24.527	26.979	23.300
41	4.000	25.156	27.671	4.000	25.156	27.671	23.898
42	4.100	25.785	28.363	4.100	25.785	28.363	24.495
43	4.200	26.413	29.055	4.200	26.413	29.055	25.093
44	4.300	27.042	29.747	4.300	27.042	29.747	25.690
45	4.400	27.671	30.438	4.400	27.671	30.438	26.288
46	4.500	28.300	31.130	4.500	28.300	31.130	26.885
47	4.600	28.929	31.822	4.600	28.929	31.822	27.483
48	4.700	29.558	32.514	4.700	29.558	32.514	28.080
49	4.800	30.187	33.206	4.800	30.187	33.206	28.678
50	4.900	30.816	33.897	4.900	30.816	33.897	29.275
51	5.000	31.445	34.589	5.000	31.445	34.589	29.872
52	5.100	32.074	35.281	5.100	32.074	35.281	30.470
53	5.200	32.702	35.973	5.200	32.702	35.973	31.067

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG.)

HIGH PERTURBATION VALUE = .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500		INNER LOOP PARAMETER= 600.000		LO. VAL.
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	
1	0.000	0.000	0.000	0.000	0.000
2	.100	.678	.746	.644	.644
3	.200	1.356	1.492	1.288	1.288
4	.300	2.034	2.238	1.933	1.933
5	.400	2.713	2.984	2.577	2.577
6	.500	3.391	3.730	3.221	3.221
7	.600	4.069	4.476	3.865	3.865
8	.700	4.747	5.222	4.510	4.510
9	.800	5.425	5.968	5.154	5.154
10	.900	6.103	6.714	5.798	5.798
11	1.000	6.781	7.460	6.442	6.442
12	1.100	7.460	8.206	7.087	7.087
13	1.200	8.138	8.952	7.731	7.731
14	1.300	8.816	9.698	8.375	8.375
15	1.400	9.494	10.443	9.019	9.019
16	1.500	10.172	11.189	9.664	9.664
17	1.600	10.850	11.935	10.308	10.308
18	1.700	11.529	12.681	10.952	10.952
19	1.800	12.207	13.427	11.596	11.596
20	1.900	12.885	14.173	12.241	12.241
21	2.000	13.563	14.919	12.885	12.885
22	2.100	14.241	15.665	13.529	13.529
23	2.200	14.919	16.411	14.173	14.173
24	2.300	15.597	17.157	14.818	14.818
25	2.400	16.276	17.903	15.462	15.462
26	2.500	16.954	18.649	16.106	16.106
27	2.600	17.632	19.395	16.750	16.750
28	2.700	18.310	20.141	17.395	17.395
29	2.800	18.988	20.887	18.039	18.039
30	2.900	19.666	21.633	18.683	18.683
31	3.000	20.344	22.379	19.327	19.327
32	3.100	21.023	23.125	19.971	19.971
33	3.200	21.701	23.871	20.616	20.616
34	3.300	22.379	24.617	21.260	21.260
35	3.400	23.057	25.363	21.904	21.904
36	3.500	23.735	26.109	22.548	22.548
37	3.600	24.413	26.855	23.193	23.193
38	3.700	25.091	27.601	23.837	23.837
39	3.800	25.770	28.347	24.481	24.481
40	3.900	26.448	29.093	25.125	25.125
41	4.000	27.126	29.839	25.770	25.770
42	4.100	27.804	30.585	26.414	26.414
43	4.200	28.482	31.330	27.058	27.058
44	4.300	29.160	32.076	27.702	27.702
45	4.400	29.839	32.822	28.347	28.347
46	4.500	30.517	33.568	28.991	28.991
47	4.600	31.195	34.314	29.635	29.635
48	4.700	31.873	35.060	30.279	30.279
49	4.800	32.551	35.806	30.924	30.924
50	4.900	33.229	36.552	31.568	31.568
51	5.000	33.907	37.298	32.212	32.212
52	5.100	34.586	38.044	32.856	32.856
53	5.200	35.264	38.790	33.501	33.501

PARAMETRIC COST ESTIMATES-DR. AARON N. SILVER-AVIONICS SW. (APPL. -HI. ORDER LANG)-----

HIGH PERTURBATION VALUE= .1000
LOW PERTURBATION VALUE = .0500

NO. TERMS	OUTER LOOP PARAMETER= 4.500			INNER LOOP PARAMETER= 650.000		
	IND. VAR.	DEP. VAR.	HI. VAL.	LO. VAL.	LO. VAL.	LO. VAL.
1	0.000	0.000	0.000	0.000	0.000	0.000
2	.100	.727	.800	.800	.691	.691
3	.200	1.454	1.599	1.599	1.381	1.381
4	.300	2.181	2.399	2.399	2.072	2.072
5	.400	2.907	3.198	3.198	2.762	2.762
6	.500	3.634	3.998	3.998	3.453	3.453
7	.600	4.361	4.797	4.797	4.143	4.143
8	.700	5.088	5.597	5.597	4.834	4.834
9	.800	5.815	6.396	6.396	5.524	5.524
10	.900	6.542	7.196	7.196	6.215	6.215
11	1.000	7.269	7.995	7.995	6.905	6.905
12	1.100	7.995	8.795	8.795	7.596	7.596
13	1.200	8.722	9.595	9.595	8.286	8.286
14	1.300	9.449	10.394	10.394	8.977	8.977
15	1.400	10.176	11.194	11.194	9.667	9.667
16	1.500	10.903	11.993	11.993	10.358	10.358
17	1.600	11.630	12.793	12.793	11.048	11.048
18	1.700	12.357	13.592	13.592	11.739	11.739
19	1.800	13.083	14.392	14.392	12.429	12.429
20	1.900	13.810	15.191	15.191	13.120	13.120
21	2.000	14.537	15.991	15.991	13.810	13.810
22	2.100	15.264	16.790	16.790	14.501	14.501
23	2.200	15.991	17.590	17.590	15.191	15.191
24	2.300	16.718	18.390	18.390	15.882	15.882
25	2.400	17.445	19.189	19.189	16.572	16.572
26	2.500	18.171	19.989	19.989	17.263	17.263
27	2.600	18.898	20.788	20.788	17.953	17.953
28	2.700	19.625	21.588	21.588	18.644	18.644
29	2.800	20.352	22.387	22.387	19.334	19.334
30	2.900	21.079	23.187	23.187	20.025	20.025
31	3.000	21.806	23.986	23.986	20.715	20.715
32	3.100	22.533	24.786	24.786	21.406	21.406
33	3.200	23.259	25.585	25.585	22.097	22.097
34	3.300	23.986	26.385	26.385	22.787	22.787
35	3.400	24.713	27.185	27.185	23.478	23.478
36	3.500	25.440	27.984	27.984	24.168	24.168
37	3.600	26.167	28.784	28.784	24.859	24.859
38	3.700	26.894	29.583	29.583	25.549	25.549
39	3.800	27.621	30.383	30.383	26.240	26.240
40	3.900	28.348	31.182	31.182	26.930	26.930
41	4.000	29.074	31.982	31.982	27.621	27.621
42	4.100	29.801	32.781	32.781	28.311	28.311
43	4.200	30.528	33.581	33.581	29.002	29.002
44	4.300	31.255	34.380	34.380	29.692	29.692
45	4.400	31.982	35.180	35.180	30.383	30.383
46	4.500	32.709	35.980	35.980	31.073	31.073
47	4.600	33.436	36.779	36.779	31.764	31.764
48	4.700	34.162	37.579	37.579	32.454	32.454
49	4.800	34.889	38.378	38.378	33.145	33.145
50	4.900	35.616	39.178	39.178	33.835	33.835
51	5.000	36.343	39.977	39.977	34.526	34.526
52	5.100	37.070	40.777	40.777	35.216	35.216
53	5.200	37.797	41.576	41.576	35.907	35.907

MAXIMUM	X=	.7323938E+00	Y=	.1593844E+01
TOLERANCE/POINT	X=	.3390712E-02	Y=	.1593844E-01
153E+01	153E+01	153E+01	153E+01	153E+01
134E+01	134E+01	134E+01	134E+01	134E+01
115E+01	115E+01	115E+01	115E+01	115E+01
956E+00	956E+00	956E+00	956E+00	956E+00
765E+00	765E+00	765E+00	765E+00	765E+00
574E+00	574E+00	574E+00	574E+00	574E+00
383E+00	383E+00	383E+00	383E+00	383E+00
191E+00	191E+00	191E+00	191E+00	191E+00

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